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FSA Status Rise Plan Presented to Congress

President Eisenhower proposed the elevation of the Federal Security Agency to the status of a cabinet office under the name of the Department of Health, Education and Welfare in his first reorganization plan submitted to congress March 12. Congressional leaders announced that immediate steps would be taken to approve the plan.

Mrs. Oveta Culp Hobby, now administrator of the FSA, will head the reconstituted agency when the plan goes through, it was announced by the White House. Mrs. Hobby already sits in cabinet meetings by invitation of the President. The advanced rank would raise her salary from $17,500 annually to $22,500.

The new department, which would be the tenth department of the government, would have four major aids—an undersecretary, two assistant secretaries and a special assistant to the secretary. The plan also would retain the post of the Commissioner of Social Security, but would be filled by presidential appointment and would require senate confirmation.

President Eisenhower said that all the agencies now in FSA, including the Food and Drug Administration, Public Health Service, Social Security System and the Office of Education, will continue in the framework of the new department. FDA and PHS would be the responsibility of the special assistant to the secretary, who is to be appointed by the President and confirmed by the senate and selected "from among persons who are recognized leaders in the medical field with wide non-governmental experience."

In a message to congress, the President said that the plan would not result in immediate savings to the taxpayer but, he added, "The improvement achieved in administration will in the future allow the performance of necessary services at greater savings than the present operations will permit.

"The purpose of this plan is to improve

—Continued on page 78

IMC Central Group Picks Ortona, of Italy, as Chairman

The International Materials Conference last week announced that Dr. Egidio Ortona, the representative of Italy, had been elected chairman of the central group, effective April 9. Dr. Ortona succeeds Dr. Octavio Paranagua, the Brazilian representative.

Two vice-chairmen were also elected. They are Leonard Waight, representative of the United Kingdom, and Frederick Winant, the United States representative.

Glycerin Is No Longer Subject to Price Rules

Glycerin has been exempted from price controls by the Office of Price Stabilization. The item was not mentioned in the OPS announcement of its fifth round of decontrol actions March 5 (OPD, 3/9/53) and therefore escaped public notice. However, examination of the official order revealed that glycerin was among the few remaining commodities handled by the food division on which controls were being dropped.

The official action was contained in amendment 23 to General Overriding Regulation 7, revision 1, and also covered cocoa beans and products derived therefrom. Handling of glycerin, a product with important industrial uses, by the food rather than the chemical division came about by right of inheritance. Glycerin is a byproduct of soap manufacture, and the latter product is made from fats and oils, which were under the jurisdiction of the food division.

CMP Export Licensing For 2nd Quarter Eased

In a move parelleling the recent action of the National Production Authority in "open-ending" the Controlled Materials Plan, the Office of International Trade informed exporters March 11 that they may now apply for export licenses covering additional quantities of controlled materials in the second quarter of 1953 beyond the amounts already licensed.

OIT noted that NPA's regulation 1, direction 20, of last month established a procedure by which controlled materials producers may accept unrated orders for controlled materials and explained how persons may obtain and use such materials without charging them against their allotments. This provision is applicable to the delivery of CMP materials for export after February, 1953, OIT announced.

Effective immediately, any applicant who acquires or produces aluminum, copper or steel controlled materials (designated by the letter "C" on OIT's positive list) in accordance with direction 20, may file an export license application for those commodities without regard to established time schedules.

Controlled Materials Plan Ends June 30; New Scheme Readied

Acting mobilization director Arthur S. Flemming last week ended the speculation over the future of the Controlled Materials Plan with an announcement that the plan definitely will be terminated June 30 and a new system will be established for assuring that defense production and construction remains on schedule. The latter is conditioned upon congress granting the necessary authority, however.

The new rules for reaching this objective will be known as the Defense Materials System. DMS regulation No. 1 will be issued in a few days. At the same time, the National Production Authority will issue direction 21 to CMP regulation No. 1, to provide for an orderly transition from the total control system incorporated in CMP to the support that DMS will provide for defense programs.

Except for nickel-bearing stainless steel, which is vitally important in certain chemical manufactures, this direction will cancel all non-defense controlled material allotment authority for the third and subsequent quarters.

Provides for Defense Allotment

Mr. Flemming said that the new system will provide an allotment of materials required for production and construction for defense. At the same time, material controls over civilian production and construction will be terminated for operations beginning with the third quarter of this year.

The director emphasized that the CMP regulations remain in full force and effect through the second quarter of this year. He stated that the details regarding the transition from CMP to the Defense Materials System will be incoroporated in the official regulations to be issued by the NPA in the next few days. As soon as these regulations are published, industry will be in a position to take the steps necessary to adapt their third quarter operations to the new rules.

Allotment Authority to Be Raised

Mr. Flemming said "the government will immediately raise third quarter 1953 allotment authority for the purchase of nickel-bearing stainless steel to 100 percent of the supply so as to permit the acquisition of this material by defense and other essential users."

In a move to facilitate scheduling operations, NPA amended its basic priorities regulation March 11. Effective immediately, the amendment to NPA regulation No. 2 provided that:—

1. After acceptance of a rated order, suppliers and customers may agree on a delivery date which is earlier or later than the date established in the original order, provided, however, that the new date does not interfere with the shipment of any other rated order accepted prior to the time of change.

2. Changes in program identifications of rated orders approved by NPA do not affect the position of such orders on producers' delivery schedules.

Chemical Prices Are Unshackled; Sulphur and Acid Remain Curbed

The chemical industry was freed from price control March 12 by the Office of Price Stabilization, except for ceilings on sulphur and a few of its compounds and beryllium oxide.

In its sixth major decontrol order, carrying out the White House directive for ending the price control program, the agency removed the ceiling on the last remaining items that still existed under control at the consumer level and wiped away the controls over all industrial products except a handful of items amounting to about 5 percent of the wholesale price index.

The action was officially announced in General Overriding Regulation 44 which states, in effect, that except for the items specifically listed in the regulation, all other products are exempt from price control at all levels of distribution in the continental United States.

OPS said, in connection with the decontrol of the chemicals, that the order completes the decontrol of all commodities handled by the chemicals and drug branch, with the exception of sulphur, sulphuric acid, oleum and sulphur trioxide, the only sulphur products remaining under control. No reason was given for continuing controls on these products.

Chemicals Decontrolled by Order

Decontrolled by the order, the agency said by way of explaining its scope, are basic inorganic chemicals such as chlorine, compressed and liquefied gases, acids, alkalis and salts, as well as potash and potash salts, including langbeinite, sylvinite and brines, salt (sodium chloride), salt brines, pyrites, nitrate of soda, silica, magnesia, magnesite, talc, kernite (rasorite), tincal and borax.

Also all organic chemicals, including petrochemicals; chemical products used in further manufacture such as plastic materials, adhesives, dry colors, dyes and intermediates; and products such as fertilizer materials and mixtures, herbicides and pesticides, as well as antifreeze, fine chemicals, perfume bases, wool grease, lanolin, and chemical specialties, which include such items as floor and furniture polishes, adhesives, soil conditioners, insect repellents, household insecticides and cleansing agents.

Essential Oils Not Mentioned

Essential oils were not specifically mentioned in the announced list of items decontrolled but this was understood to be an oversight and were not intended to be excluded. Essential oils are not on the list of products contained in GOR-44 as being still under control, it was explained, so therefore they are not under control. All services rendered in connection with these commodities such as those used in the processing or manufacturing of these commodities are likewise decontrolled.

When asked concerning the effect of price decontrol of pesticides, Lee S. Hitchner, secretary of the National Agricultural Chemicals Association, stated that he expected no particular effect on availability or prices of pesticides. He said that "insecticides, fungicides and weed killers, and similar agricultural chemicals are in adequate supply at the present time and prices are well below ceilings in all cases."

OPS estimated that the annual sales in 1951 at the manufacturing level for the chemicals and allied products decontrolled amounted to $10,000,000,000. It estimated the annual sales of sulphur

—Continued on page 78

Cerium, Thorium Compounds Import Duties Cut Granted

Import duties on certain cerium and thorium compounds will be reduced from 35 percent ad valorem to 30 percent ad valorem March 21 as a result of the signing of the Torquay Protocol to the General Agreement on Tariffs and Trade by Brazil last month, it was announced March 9 by the state department.

Brazil became a party to the Tarquay agreement on February 19, the department stated, and under the terms of the agreement the concessions negotiated between Brazil and the United States become effective thirty days later. Under the principle of the most-favored-nation clause, the concessions become available to all other countries.

Only a few products were involved in the Torquay agreement with Brazil since most of the concessions had been negotiated at the Geneva conference in 1947. The only item of interest to the chemical industry was the reduction in United States duties on the cerium and thorium compounds.

These items are found in paragraph 87 of the tariff act of 1930, and the reduction in duty from 35 percent to 30 percent, as stated in the Torquay agreement, applies to:—

"Thorium nitrate, thorium oxide, and other salts of thorium not specially provided for; cerium nitrate, cerium fluoride, and other salts of cerium not specially provided for, and gas mantle scrap consisting in chief value of metallic oxides."

Manganese Ore Contracts Signed for Mexican Imports

The signing of four contracts which call for delivery to the United States of 230,500 tons of manganese ore from thirty to forty small Mexican mines has been announced by Howard I. Young, Deputy Administrator of the Defense Materials Procurement Agency. These contracts are part of a three-year project to assist in the development of new deposits of manganese in Mexico, and this project, in turn, is part of a larger program aimed at developing additional sources on this continent.

Mr. Young said that the Mexican project calls for the production of 550,000 tons of manganese ore from a number of areas below the border. The ore will be delivered to a depot at El Paso, Tex., for later processing to meet requirements of the steel industry. DMPA plans to negotiate with a private concern for the construction and operation of a processing plant.

With 50,000 tons already under contract, the agreements bring the total thusfar signed for to 280,500 tons. Contracts for the remaining 269,500 tons are under negotiation. The whole 550,000 tons are expected to be delivered to the El Paso depot within the next three years.

FDA Amends Antibiotic Certification Regulations

Several amendments to regulations covering the certification of antibotic products were issued last week by the Food and Drug Administration.

The amendments provide for deletion of the requirement that the labels for penicillin-streptomycin bougies that contain the excipient polyethyleneglycol bear the refrigeration statement; the addition of cortisone acetate to bacitracin ointment for ophthalmic use; test and methods of assay and certification of chloramphenicol otic and chloramphenicol topical, and for tests and methods of assay and certification of bacitracin-polymyxin troches.

Antibiotics, Sulpha Drugs Export Task Unit Formed

A task group of five members of the drug industry was set up last week to aid the Office of International Trade in working out a program for controlling exports of sulpha and antibiotic drugs so as to prevent them from falling into hands of the Iron Curtain countries.

Exports of these products have been at a virtual standstill since last November due to the fact that shipments were being diverted to the Communist countries, including Red China. Lately, the agency has been permitting some exports, based on current needs of the friendly countries.

Government officials have been endeavoring to work out some arrangement with the foreign governments whereby closer supervision will be maintained on the exports to prevent their transshipment to the Iron Curtain countries. Present thinking is said to be in the direction of establishing country quotas based upon some measure of the country's needs and licensing shipments against this quota.

Plant Nutrient Supply Estimate Is Cut Back

The Department of Agriculture has shaved its estimated increase in the amount of the three primary plant nutrients—nitrogen, phosphate and potash—that will be available to agriculture for the 1952-53 growing season, below the amount that was estimated last September, according to a supplemental report on the fertilizer situation just issued by the department.

Whereas in September it was estimated that total production would reach 5,900,000 tons of the nutrients and surpass the 1951-52 total by 12 percent, the department now estimates that production will be 5,815,500 tons or 11 percent over the 1951-52 total of 5,245,000 tons.

Supply figures were adjusted for each of the three plant nutrients, with decreases in the estimates for phosphates and potash, and an increase in the estimate for nitrogen. The department now estimates the production of each of the plant foods as folows:—

Nitrogen—The revised 1952-53 estimated supply of nitrogen is 1,660,000 tons (N), representing an increase of 4.7 percent over the September, 1952, estimate of 1,585,000 tons, and 16.5 percent more than the 1951-52 supply.

Phosphates—The revised 1951-53 estimated supply of phosphates in terms of available phosphoric oxide (P_2O_5) is 2,410,000 tons, representing a 2.2 percent decrease from the earlier estimate of 2,465,000 tons, but remaining above the 1951-52 supply by nearly 8 percent.

Potash—The revised estimated 1952-53 supply of potash in terms of potassium oxide (K_2O) is 1,745,000 tons. Although reflecting some decrease from the earlier forecast of 1,850,000 tons, the revised estimate is about 10 percent more than the 1951-52 supply.

A report based upon trade deliveries of nitrogen, phosphates, and potash during 1952-53 and a forecast of the 1953-54 supply is scheduled to be issued after the close of the current season.

Soda Ash, Chlorine Prices Advanced by Diamond Alkali

Diamond Alkali Company, Cleveland, Ohio, last week announced price increases for soda ash and chlorine, effective April 1, but explained that the new prices will be applicable only on shipments made on or after May 1, 1953.

Prices of carload soda ash, both light and dense, will be increased 15c. per hundred pounds both in bulk and packages. On chlorine, prices are increased 20c. per hundred pounds in single unit tankcar deliveries; and in multi-unit tankcar deliveries the following new price schedule will apply on designated annual quantities:—seventy-five tons and more, $3.80 per hundred pounds; sixty and forty-five tons, $4 per hundred pounds; thirty tons, $5 per hundred pounds; fifteen tons, $7 per hundred pounds; eight tons, $8 per hundred pounds. Prices on chlorine shipped from the company's Edgewood, Md., plant will continue to be 10c. per hundred pounds higher than those quoted above. All prices are f.o.b. Diamond's plants.

Amphetamine Salt Prices Cut by Sumner Chemical

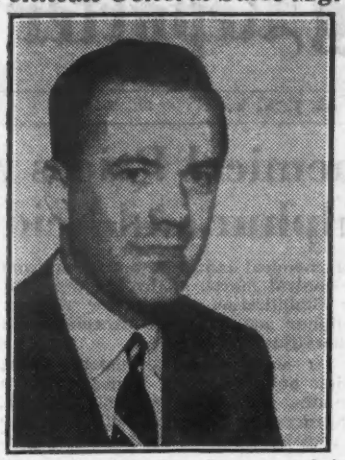
Sumner Chemical Company, New York, last week announced price reductions in its entire line of racemic and dextro amphetamine salts. The racemic amphetamine salts, which were $7 per pound, have been reduced to $6 per pound and the dextro amphetamine salts, which were $32 per pound, have been reduced to $28. The increased use of the compounds and improvements in manufacturing processes plus intensified competition were given as the reasons for the reductions.

Simultaneously, the price on racemic desoxyephedrine hydrochloride has been reduced from $7.50 to $6.50 per pound. Dextro-desosyephedrine remains at its former level of $24 per pound in twenty-five-pound lots.

Beryllium Order Clarified

The Office of Price Stabilization last week issued correction to its order permitting a pass-through of increased costs of beryllium in the manufacture of beryllium products to show that the pass-through amounts to $5.22 instead of 5.22 cents per pound of beryllium contained. The correction was made to General Overriding Regulation 43 which authorized beryllium manufacturers to pass-on certain added cost to their customers.

Pennsalt General Sales Mgr.



Albert H. Clem has been appointed general sales manager of the Pennsylvania Salt Manufacturing Company, Philadelphia, filling the post left vacant by the recent death of Russell S. Roeller. Before this appointment, Mr. Clem was assistant general sales manager. He joined Pennsalt in 1938 and, prior to being named assistant general sales manager, served variously as assistant to the vice-president in charge of sales, sales manager of the industrial chemicals department and field sales manager in charge of all district sales offices.

Antimony Stockpiling Review Asked by Idaho Legislature

The Idaho legislature has asked the federal government to review its policies on the stockpiling of antimony with the view to assuring the maintenance of a domestic antimony mining industry in this country for emergency purposes.

In senate joint memorial 4, the legislature declared that the Yellow Pine Mine in Valley County, Idaho, has been forced to close down because of heavy importations of foreign antimony at depressed prices during 1951. As a result domestic production of antimony has been at the rate of less than 100 tons annually, or less than 1 percent of total domestic requirements.

Yellow Pine Mine for years, the memorial said, had been supplying over 90 percent of the entire domestic mine output and has a productive capacity equivalent to over 20 percent of our peacetime requirements and about 10 percent of our wartime needs.

Koppers Appoints Pottenger Sales Mgr. of Chemical Unit

Koppers Company, Pittsburgh, Pa., has appointed Carl H. Pottenger assistant vice-president and sales manager of the chemical division. Mr. Pottenger, assistant sales manager of the division since 1948, succeeds Thomas C. Keeling, jr., who has resigned to become president of the Mathieson Hydrocarbon Chemicals Division of Mathieson Chemical Corporation, Baltimore, Md. (See story on page 5).

Dan M. Rugg, vice-president and general manager of Koppers chemical division, announced Mr. Pottenger's promotion and, at the same time, stated that J. W. Pool, jr., has been made assistant sales manager of the division. Mr. Pool was previously chemical products manager for the division.

Carl H. Pottenger

Mr. Pottenger began his career as a research chemist for the Bell Telephone Laboratories and later did sales development work with several chemical firms. In 1946 he became a vice-president of the Pennsylvania Coal Products Company, Petrolia, Pa., which concern was later acquired by Koppers. In 1947 he was assistant manager of the plastics division of American Cyanamid Company, New York, but returned to Koppers in 1948 as assistant sales manager of the chemical division.

Mr. Pool joined Koppers in 1942 as general foreman of its butadiene division. Following the war, he came to the Pittsburgh offices of the chemical division, serving first as Pittsburgh district sales manager and then as chemical products manager.

Contents of This Issue

ACS, L. A. Paint Techs. to Meet 69
Amphetamine Salt Prices Cut 4
Antibiotics, Sulphas Task Unit Formed 3
Antimony Stockpiling Review Asked 4
Benzol, Toluol Output Rise Due at Shell... 5
Beryllium Order Clarified 4
Business in Dec., 1952 43
Carbide Lab Makes Nuclear Electric Power . 55
Carbobenzoxy Chloride Production 56
Cerium, Thorium Import Duties Cut 3
Chase Adds Woodrich 42
Chemical & Process Liquidating Unit 41
Chemical Role in Atomic Energy Outlined.. 7
Chicago Perfumery Group Party Thursday .. 57
Clem Pensalt General Sales Mgr. 4
CMP Export Licensing Eased 3
Controlled Materials Plan Ends June 30 ... 3
Copra, Coconut Decline Forecast 70
Cryolite Export Rules Eased 47
CSMA Luncheon Wednesday 42
Dewey & Almy Has New Dispersing Agent .. 69
Diamond Advances Soda Ash, Chlorine 4
Emery Industries Adds Farr 70
Fatty Alcohols Expansion Told by Stepan .. 5
FDA Amends Antibiotic Rules 3
Flaxseed, Linseed Oil Exports Off 57
FSA Status Rise Before Congress 3
Gas, Oil Leases Offered 47
Glycerin No Longer Under Price Rule 3
Gum Turpentine Purchase Funds Granted .. 70
Hardy to Fete Mulligan 41
Heyden Elects Lindsay 56
Hooker Ups R. W. Hooker 5
IMC Central Group Picks Ortona 3
Keeling Mathieson Hydrocarbon Pres. 5
Koppers Appoints Pettenger 4
Koppers Tar Post to Kenan 50
Lucidol Increases Catalyst Capacity 69
Manganese Dioxide Output Started 5
Manganese Ore Contracts Signed 3
Miel Enters New Field 73
Miller Returns to Oil Information Com. ... 47
MM&R Fetes DSC 56
NACA Told Pesticides Face Poor Year 5
National Aniline Names Wolley 50
National Lead Names Crowe 69
NE Chemical Club Plans Dinner 41
Newport Industries Unit Being Built 70
Nitric Acid Output Increase Planned 5
NPC Study Group Named 47
Oil Industry Sulphur Production 43
Olive Oil Packaging Bids Asked 73
Parke, Davis Ups Middleton 62
Perfumers Meet Wednesday 57
Plant Nutrient Supply Estimate 4
Plastics Use in Air Conditioning Seen 69
Procaine Hydrochloride Metalsalts Peak ... 5
Rand Appointment Approved 50
Research, Development Labs Goal Set 57
Resources Conference Plans Review Set... 7
Resin Renamed by Monsanto 70
Scherer Elects Farnum, Fox 62
Shell Oil Elects Directors 47
Solvay Ups Soda Ash, Chlorine Prices 5
South Korea Hog Bristles Licenses OK'd 69
Soybean, Flax Support Maintenance Urged .. 5
Soybeans, Soybean Oil Exports Lower 45
Spencer Chemical Adds Two 45
Spencer Kellogg Appoints Peterson 73
Sun Appoints Parmelee, Reinhard 47
Tungsten, Molybdenum Export Quotas Set .. 50
US Revenue Returns: Jan. 45
USDA Mothproofing Agent Usable 42
USP Constitutionality Upheld in Wis. ... 56
World Health Conference April 6 7
Wurster & Sanger Gets Rights 73

Market Reports

(See Page 9)

General Features

Advertising Index..... 79
Association Meeting Dates..... 7
Bids Wanted 65
Book Review 36
Classified Advertisements..... 78
Coal Chemicals..... 48
Consulting Chemists and Engineers..... 65
Crude Oil Stocks..... 46
Current Market Quotations..... 9
Editorials 36
Imports 58
Imports Detained 61
Obituaries 59
OPD Price Index..... 4
Trade Briefs 56, 69
Washington Talks It Over..... 5

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Price Index Dips Lower

Notwithstanding the lifting of price ceilings on virtually all chemicals, the overall OPD index declined 0.09 point last week. With the exception of botanicals, the various markets either registered downward trends or were unchanged. Although the majority of price changes in the oils, fats and waxes market were upward, the amount of decline in reduced items resulted in a substantial lowering of the index number. In the group of items advanced were copra, greases, lard, coconut, corn and cottonseed oils in addition to lauric, oleic, soybean and tallow acids. Reductions included linseed and soybean meals as well as carnauba and ouricury waxes.

Price changes in the heavy chemicals section were more numerous than usual with advances in copper chloride, lead metal and magnesium ingots and sticks. Featured among declines were calcium phosphate and quicksilver. Advances in the essential oils market were in methyl and alpha ionone in addition to ocotea cymbarum and lignaloe wood oils. Cetyl alcohol, phenylethyl acetate, and coriander oil were among the group of items reduced.

Dried blood was reduced in the agricultural chemicals section. Imported cresylic acid was reduced in the coal chemicals market and the petroleum derivatives section continued without feature. Price activity in the drugs and fine chemicals market included reductions in the amphetamine salts and in desoxyephedrine hydrochloride. Technical egg albumen and yolk were advanced in the textile and leather chemicals market while flake egg albumen was reduced.

Price changes in the protective coatings materials market reflected the advance in lead metal and included advances in the lead oxides. Red, vermilion quicksilver and zinc dust were reduced. The botanical market showed an advance in its index. In the group of items advanced were witch hazel leaves, corn silk, spot black pepper, Mexican pimento and French celery seed. Among reductions in this market were lobelia herb, cassia, and Zanzibar clove.

Except for twenty-five changes in botanicals listed on page 61, price changes during the past week were as follows (the numbers in parentheses after changes indicate the pages on which the market reports will be found):—

Prices Advanced

Acid, coconut, 1½c. per lb. (71).
Lauric, 90%, 1½c. per lb. (71).
Oleic, ½c. per lb. (71).
Soybean, 1½c. per lb. (71).
Stearic, ½c. per lb. (71).
Tallow, ½c. per lb. (71).

Calcium phosphate, dibasic, feeding grade, $10 per ton (38).

Copper chloride, anhydrous, 6½c. per lb. (38).
crystals, 4¾c. per lb.

Copra, $25 per ton (71).

Egg albumen, tech., 2c. per lb. (51).
yolk, 4c. per lb.

Greases, ⅝c. per lb. (71).

Ionone, alpha, 25c. per lb. (63).
Methyl, 35c. per lb.

Lard, ¾c. per lb. (71).

Lead, metal, ½c. per lb. (38).
Monosilicate, 48/100c. per lb. (67).
red, 95%, 97½%, 98%, ½c. per lb. (67).

Litharge, ½c. per lb. (67).

Magnesium ingots, 2½c. per lb. (38).
sticks, 3c. per lb.

Oil, coconut, crude, 2¼c. per lb. (71).
Corn, crude, ⅝c. per lb. (71).
ref., ⅝c. per lb.
Cottonseed, crude, ½c. per lb. (71).
ref., ½c. per lb.
Lignaloe wood, Mexican, 20c. per lb. (63).
Ocotea cymbarum, 2c. per lb. (63).
Peanut, crude, 2½c. per lb. (71).
ref., 2½c. per lb.
Rice bran, ¾c. per lb. (71).
Soybean, crude, ⅝c. per lb.
ref., ⅝c. per lb.

Orange mineral, ½c. per lb. (67).

Quicksilver, $4 per flask (38).

Prices Reduced

Acid, cresylic, imp., ADF, 10c. per gal. (48).

Alcohol, cetyl, NF, 3c. per lb. (63).

Amphetamine hydrochloride, dextro, $4 per lb. (53).
racemic, $1 per lb.

Blood, dried, New York, 25c. per unit of ammonia (44).

Desoxyephedrine hydrochloride, racemic, $1 per lb. (53).

Egg albumen, flake, 7c. per lb. (51).

Linseed meal, $1 per ton (71).

Oil, coriander, USP, $2 per lb. (63).
Lavender spike, Spanish, 10c. per lb. (63).
Oiticica, ¼c. per lb. (71).
Orange, sweet, distilled, 10c. per lb. (63).

Peanut meal, $1 to $3 per ton (71).

Phenylethyl acetate, 10c. per lb. (63).

Red, vermilion, quicksilver, 7c. per lb. (67).

Soybean meal, 50c. per ton (71).

Wax, carnauba, yellow, No. 1, 1c. per lb. (71).
No. 2, 1c. per lb.
Ouricury, 1c. per lb. (71).

Zinc, dust, ½c. per lb. (67).

OPD Price Index

THE OIL, PAINT AND DRUG REPORTER'S relative record of prices of chemicals and related materials is currently as follows:—

(100—1949 average)

March 13, 1953	March 9, 1953	March 14, 1952
107.75	107.84	110.53

Soybean, Flax Support Maintenance Is Urged

The Department of Agriculture was urged last week by a special soybean-flax committee to maintain present price support levels for the current year and to conduct special studies of the most practical general price levels and relationships for the future.

At a two-day meeting March 9 and 10, the committee also recommended expanded research with soybeans and flaxseed, concentrated in the field of production, utilization and marketing to increase efficiency. In other recommendations, the committee urged emphasis on the proper relationship among price levels for competing crops, but reported that it did not at this time recommend the designation of either soybeans or flaxseed as a "basic" commodity under agricultural legislation.

In discussing the desirability of reestablishing a "free and competitive price system," with the government maintaining the necessary safeguards to keep agriculture free and solvent, the committee said that "flaxseed or soybean crops need no extraordinary attention to endure in agriculture. However, neither is so essential in the crop rotation practices that it could withstand, even for a short time, arbitrarily created disadvantages in relation to competing crops or competing oils and proteins."

In suggestions relating specifically to soybeans, the committee recommended that the support price be continued for the current year at 90 percent of parity, in view of the fact that "this price seems to represent a proper relationship to the prices at which corn and cotton, the principal competing crops, are supported under mandatory provisions." It also urged that steps be taken to encourage exports of soybeans not needed in the domestic market.

With regard to flaxseed, the committee expressed the belief that 80 percent of parity now being maintained will not encourage uneconomic acreage expansion this year, and that the present method of supporting flaxseed prices is workable and sound. It also pointed out that surpluses must be handled so that their sale does not compete with current production in such a way as to hamper the overall program. The committee recommended that the department's marketing practices in disposing of accumulated surpluses be carefully reviewed before announcement, and that the sales policy be carefully explained to the trade in detail.

Manganese Dioxide Output Begun by AMC in Oregon

American Metallic Chemicals Corporation has started commercial production of electrolytic manganese dioxide and is installing additional facilities for the production of other products at its plant in Portland, Ore. Chief among the projected products is sodium perborate, both tetrahydrate and monohydrate, production of which is scheduled to get under way early next year. Caldwell Chemical Company, New York, is sole selling agent for AMC's products.

Mathieson Hydrocarbon Pres.

Thomas C. Keeling, jr., has been appointed president of Mathieson Hydrocarbon Chemicals Division of Mathieson Chemical Corporation, Baltimore, Md. Prior to his Mathieson appointment, Mr. Keeling was assistant vice-president and sales manager of the chemical division of Koppers Company, Pittsburgh, Pa., and served as director of the chemical division of the National Production Authority from September, 1952, to March, 1953. In his new post, Mr. Keeling will be responsible for the domestic and Canadian sales of all organic chemicals and for the operation of Mathieson's plants at Doe Run, Ky.; Morgantown, W. Va., and Niagara Falls, N. Y.

Nitric Acid Output Increase Planned by Phillips Chemical

Construction of facilities to increase the present nitric acid capacity by 110 tons per day at the Cactus plant, Etter, Tex., will be started immediately, according to an announcement by the Phillips Petroleum Company, Bartlesville, Okla. Present government-owned nitric acid facilities are operated under lease by the Phillips Chemical Company, a wholly-owned subsidiary. New construction will be owned and operated by the subsidiary company and is expected to be completed late this year.

The Chemical & Industrial Corporation, Cincinnati, Ohio, is handling the process and design for Phillips under contract, and construction will be done by Chemical Processes, Inc., a wholly-owned subsidiary.

The plant, formerly known as the Cactus Ordnance Works, was leased in 1948 by Phillips Chemical. At the time Phillips assumed operation, ammonia was the only fertilizer material being produced. Since then the company has doubled in size the ammonia production capacity and nitric acid production facilities were installed, with Phillips Chemical continuing to operate both under lease from the government. The company later installed an adjacent plant, which it owns and operates, to produce ammonium nitrate and nitrogen solutions.

NACA Told Pesticides Industry Is Facing an Unprofitable Year

An unprofitable year for the pesticides industry was predicted last week by Arthur W. Mohr, president of the National Agricultural Chemicals Association. Mr. Mohr, who is president of the California Spray-Chemical Corporation, Richmond, Calif., spoke at the association's spring meeting, held March 11 to 13 at the Jung hotel, New Orleans, La.

"At present, manufacturing capacity for most agricultural chemicals is much greater than the demand, so it appears that prices may remain low and that as an industry the profits will be meager if there are any at all," he asserted. He described the situation in the pesticides industry as "not a happy or healthy situation" but a "realistic" one.

Mr. Mohr said that the oversupply situation of pesticides has resulted in price reductions—some of them drastic. He reported that reductions have amounted to about 50 percent on such chemicals as DDT and benzene hexachloride. "Prices of finished formulations made from all chemicals," he continued, "have been reduced more in proportion than in the reduction of base chemical cost."

Increased Yields via Pesticides Cited

He emphasized that with the prices of farm commodities declining, farmers could obtain large increased yields through the use of pesticides and obtain full returns from their investment in seed and fertilizer. He pointed out that damage from pests caused billions of dollars' loss to the farmer annually and asked, "Doesn't it make sense that if, in time of low farm prices, a farmer fully protects his crops he has a much better chance for profit." In explanation he gave several examples of increased yields of peanuts, potatoes, and cotton by proper use of pesticides.

Reports of harder-to-kill insects are occurring with increasing frequency, it was revealed in a paper by Avery S. Hoyt, chief of the Bureau of Entomology and Plant Quarantine, which was presented to NACA by Dr. H. L. Haller, assistant chief of the bureau. He described the resistance to insecticides by some major pests as "the modern entomological headache," and pointed out that the problem is not limited to resistant houseflies, mosquitoes, roaches, or body lice, but is of a much more widespread nature.

Danger to Food Supply

"It is the coddling moth problem, the Colorado potato beetle problem, and others that could materially affect our food and feed supplies," he asserted. He warned that "we don't know just how long present

—Continued on page 74

Hooker Electrochemical Co. Promotes R. Wolcott Hooker

R. L. Murray, president of Hooker Electrochemical Company, Niagara Falls, N. Y., has announced that R. Wolcott Hooker, formerly vice-president in charge of sales, has been elected vice-president and has been given broader responsibility

R. Wolcott Hooker

with respect to overall management of the company. Among his other duties, Mr. Hooker will continue to be active in sales work.

Robert E. Wilkin, formerly general sales manager, has been elected vice-president and general sales manager, while Frank W. Dennis, formerly director of industrial relations, has been elected vice-president in charge of industrial relations.

Mr. Hooker joined Hooker Electrochemical in 1922 and became assistant to the sales manager in 1929, assistant sales manager in 1930 and sales manager five years later. He was elected a director of the company in 1937 and vice-president and sales manager in 1941. In 1949, he was appointed vice-president in charge of sales.

Mr. Wilkin became associated with Hooker Electrochemical in 1936 as sales manager of fine chemicals. He was named eastern sales manager in 1943 and general sales manager in 1949. Mr. Dennis began his career with the firm in 1916, became personnel director and employment manager in 1927 and, in 1950, was made director of industrial relations for the company's plants at Niagara Falls and Tacoma, Wash., as well as for the Hooker-Detrex plant at Ashtabula, Ohio.

Fatty Alcohols Expansion Told by Stepan Chemical

The Stepan Chemical Company, Chicago, has announced a new line of higher fatty alcohols from tallow and other fats and oils. A semi-works unit utilizing the sodium reduction process has been erected and limited production is under way.

The new alcohols, which will be called "Makanols," lend themselves to a wide range of applications as emollients, emulsifiers, absorption bases, intermediates, penetrants and thickeners, Stepan said.

Stepan "Makanols" are mixtures of higher fatty acid alcohols and include oleyl alcohol and alcohols from soya, fish and linseed oils. Sulphates of the "Makanols" are also available, and, as stated by the manufacturer, these sulphates, because of their detergent qualities, combined with low defatting of the skin, will be of particular interest for use in shampoos, heavy-duty household detergents and other detergents in either liquid or solid form, the producer stated.

Procaine Hydrochloride Now In Full Output at Metalsalts

Metalsalts Corporation, Hawthorne, N. J., has launched full scale production of procaine hydrochloride through its subsidiary company, Dar-Syn Laboratories, Inc. Metalsalts, through the subsidiary, had manufactured limited quantities of procaine hydrochloride during the past year on a pilot plant basis.

Soda Ash, Chlorine Price Schedules Raised by Solvay

Solvay Process Division, Allied Chemical & Dye Corporation, New York, last week announced higher price schedules on light and dense soda ash and liquid chlorine, effective May 1. The new schedules, f.o.b. maker's works, are as follows per houndred pounds:—

Light soda ash, 58 percent, bulk, carloads, $1.35; light soda ash, 58 percent, paper bags, carloads, $1.65; light soda ash, 58 percent, barrels, carloads, $2.20; dense soda ash, 58 percent, bulk, carloads, $1.45; dense soda ash, 58 percent, paper bags, carloads, $1.75; dense soda ash, 58 percent, barrels, carloads, $2.30; liquid chlorine, single unit tankcars, $2.90; liquid chlorine, multiple unit tankcars (one-ton containers), $2.90; liquid chlorine, five cars or more to one destination in one year on contract, $3.80; liquid chlorine, three or four cars to one destination in one year on contract, $4; liquid chlorine, two cars to one destination in one year on contract, $5; liquid chlorine, single cars to one destination in one year on contract, $6, and liquid chlorine, one-ton cylinders, less than fifteen-ton carlots via truck, $7.

Benzol, Toluol Output Rise Due From New Shell Plant

A multi-million dollar integrated "platforming" and aromatics extractive distillation plant, which will add about 10 percent to the domestic output of benzol plus a large volume of toluol, has been put on stream at its Houston, Tex., refinery, the Shell Oil Company, New York, has announced.

Yearly output will exceed 19,000,000 gallons of benzol and 33,000,000 gallons of toluol. Aromatic and non-aromatic by-products of the plant are blended into aviation gasoline, motor gasoline and special products. The installation, said to be the largest of its kind in operation in this country, uses an extractive distillation process developed by Shell. This process, in a plant recently completed by the Atlas Processing Company, has yielded 99.9 percent benzol recovery. The corresponding over-all plant recovery after treating the benzol to nitration quality is 98 percent.

Washington Talks It Over

By Ralph L. Cherry

Although farm state senators and representatives are greatly disturbed over sagging farm prices, the Department of Agriculture does not view the situation with any great show of alarm. Economists of the department state that good business is in prospect for the next few months that is expected to keep consumer income at record levels.

Demand from consumers, business and the government is strong, they find. Prospects that investment by businessmen and construction activity will continue high and that defense spending will increase further indicate that demand will continue strong. However, the farm price index is 16 percent below the peak of February, 1951, although still 6 percent above June, 1950, just before the Korean outbreak.

As to the outlook, the economists report that weather is an important key to the cattle price trend this year. The number of cattle went up 5,900,000 head last year to a record 93,700,000 head on January 1. Though cattle marketings have increased, hog marketings are down and this should help strengthen the cattle market. More price stability than in 1952 is expected unless drought or other weather hazards speed marketings as happened last summer and fall.

In contrast to the cattle situation, weather was unusually favorable for milk production this winter. With farmers feeding concentrates liberally and the number of milk cows increasing, output reached the highest annual rate on record in December and was nearly as high in January. This increased production was mainly responsible for the price declines of the last few months. Beginning April 1, the department will start supporting dairy prices at 90 percent of parity.

Lard prices reached a twelve-year low in January and then moved up sharply, although they are still comparatively low. The economists expect further increases as production drops off with the decline in hog slaughter. Prices of edible vegetable oils averaged about the same in both January and February. Supplies are at record levels, but about 35 percent of the output of cottonseed oils expected for this year has been tendered to the CCC under the support program.

Control of Cattle Grubs

Entomologists and veterinarians are reporting new successes in their research work on controlling livestock pests by feeding or injecting some of the newer insecticides into the cattle. The latest report from the Department of Agriculture

—Continued on page 36

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Association Meetings

This Week

American Chemical Society, national meeting, Statler and Biltmore hotels, Los Angeles, March 15-19.

Combined Contact Committee of ADMA and APMA, Washington hotel, Washington, D. C., March 19-20.

National Association of Corrosion Engineers, Sherman hotel, Chicago, March 16-20.

Salesmen's Association of the American Chemical Industry, Commodore hotel, New York, March 17.

Southern Paint and Varnish Production Club, annual meeting, Buena Vista hotel, Biloxi, Miss., March 18-21.

American Association of Textile Chemists and Colorists, annual meeting, Conrad Hilton hotel, Chicago, September 17-19.

American Chemical Society, fall meeting, Conrad Hilton hotel, Chicago, September 6-11.

American Coke and Coal Chemicals Institute, annual meeting, Greenbrier hotel, White Sulphur Springs, W. Va., October 12-13.

American Council of Commercial Laboratories, annual meeting, Detroit, Mich., November 4-6.

American Drug Manufacturers Association, annual meeting, Boca Raton Club, Boca Raton, Fla., April 13-16.

American Institute of Chemists, annual meeting, Philadelphia, May 12-13.

American Leather Chemists Association, annual meeting, Netherland Plaza hotel, Cincinnati, Ohio, June 7-10.

American Institute of Chemical Engineers, annual meeting, Jefferson hotel, St. Louis, Mo., December 13-16.

American Management Association, spring manufacturing conference, Statler hotel, New York, April 8-10.

American Oil Chemists' Society, annual meeting, Roosevelt hotel, New Orleans, La., May 4-6.

American Petroleum Institute, annual meeting, Conrad Hilton hotel and Palmer House, Chicago, November 9-12.

American Pharmaceutical Association, Salt Lake City, Utah, August 16-22.

American Pharmaceutical Manufacturers Association, annual meeting, Greenbrier hotel, White Sulphur Springs, W. Va., March 30-April 1.

American Plant Food Council, annual meeting, The Homestead, Hot Springs, Va., June 11-14.

American Society of Hospital Pharmacists, annual meeting, Salt Lake City, Utah, August 16-22.

American Society for Testing Materials, annual meeting, Chalfonte-Haddon Hall, Atlantic City, N. J., June 29-July 3.

American Zinc Institute, annual meeting, Statler hotel, St. Louis, Mo., April 27-28.

Armed Forces Chemical Association, annual meeting, Waldorf-Astoria hotel, New York, May 20-21.

Association of Consulting Chemists and Chemical Engineers, symposium, Belmont Plaza hotel, New York, April 21; annual meeting, Belmont Plaza hotel, New York, October 27.

Chemical Specialties Manufacturers Association, midyear meeting, Drake hotel, Chicago, May 17-19; annual meeting, Mayflower hotel, Washington, D. C., December 6-8.

Commercial Chemical Development Association, annual meeting, Statler hotel, New York, March 23-24.

Electrochemical Society, spring meeting, Statler hotel, New York, April 12-16.

Federal Wholesale Druggists Association, annual meeting, Greenbrier hotel, White Sulphur Springs, W. Va., September 20-23.

Federation of Paint and Varnish Production Clubs, annual meeting, Chalfonte-Haddon Hall, Atlantic City, N. J., October 29-31.

International Magnesium Exposition, Washington National Guard Armory, Washington, D. C., March 31-April 2.

Liquefied Petroleum Gas Association, national convention and trade show, Conrad Hilton hotel, Chicago, May 3-6.

Manufacturing Chemists Association, joint meeting with SOCMA, Greenbrier hotel, White Sulphur Springs, W. Va., June 11-13.

Metal Powder Association, annual meeting, show, Cleveland hotel, Cleveland, Ohio, April 21-22.

National Association of Retail Druggists, annual meeting, Sherman and Morrison hotels, Chicago, October 11-15.

National Conference on World Health, Shoreham hotel, Washington, D. C., April 6-8.

National Cottonseed Products Association, Ambassador hotel, Los Angeles, May 8-12.

National Fertilizer Association, annual meeting, Greenbrier hotel, White Sulphur Springs, W. Va., June 15-17.

National Paint, Varnish and Lacquer Association, annual meeting, Chalfonte-Haddon Hall, Atlantic City, N. J., October 26-28.

National Petroleum Association, midyear meeting, McCurdy hotel, Evansville, Ind., April 15-17; annual meeting, Traymore hotel, Atlantic City, N. J., September 16-18.

National Sanitary Supply Association, annual meeting and merchandise exposition, Conrad Hilton hotel, Chicago, March 22-25.

Paint Industries Show, Haddon Hall, Atlantic City, N. J., October 27-30.

Society of Industrial Packaging and Materials Handling Engineers, exposition, technical short course and competition, Mechanics Hall, Boston, October 18-24.

Southwestern Paint and Varnish Production Clubs, annual meeting, Shamrock hotel, Houston, Tex., April 17-18.

Synthetic Organic Chemical Manufacturers Association, Commodore hotel, April 8, New York; joint meeting with MCA, Greenbrier hotel, White Sulphur Springs, W. Va., June 11-13.

Toilet Goods Association, annual meeting, Waldorf-Astoria hotel, New York, May 12-14.

Oils, Fats Consumption: January

Factory consumption of primary oils, fats, Fatty acids, and related materials, in January, 1953, totaled 1,454,523,000 pounds, according to the Bureau of Census. Consumption in the major specified lines of industry included the following quantities:—

	Pounds
Edible products	313,130,000
Paint and varnish	46,418,000
Processing	329,131,000
Refining	546,547,000
Soap	119,723,000

Factory consumption of individual materials was reported as follows:—

Oils

	Pounds	
Babassu—	Crude	Refined
Refining	.....	.....
Soap	.....	[1] .....
Other	.....	.....
Castor—	No. 1	No. 3
Refining	.....	.....
Fat-splitting	.....	.....
Sulphonation	166,000	298,000
Soap	[1]	[1] .....
Paint and varnish	335,000	11,000
Linoleum and oilcloth	[1]	[1] .....
Chemicals	[1]	[1] .....
Lubricants and greases	48,000	42,000
Other uses	[2]4,513,000	[2]388,000
Castor, dehydrated—		
Soap	.....	.....
Paint and varnish	.....	1,036,000
Linoleum and oilcloth	.....	[2] .....
Lubricants and greases	.....	.....
Other uses	.....	[2]900,000
Coconut—	Crude	Refined
Refining	29,296,000	.....
Deodorizing	.....	6,839,000
Hydrogenation	.....	2,133,000
Fat-splitting	3,692,000	[1] .....
Shortening	.....	105,000
Sulphonation	61,000	[1] .....
Other edible products	[1]	2,029,000
Chemicals	[1]	[1] .....
Soap	7,462,000	7,364,000
Paint and varnish	.....	396,000
Other uses	[1]	[1]1,701,000
Cod and codliver—		All grades
Sulphonation	.....	267,000
Deodorizing	.....	.....
Paint and varnish	.....	.....
Other uses	.....	[2]945,000
Corn—	Crude	Refined
Refining	19,456,000	[1] .....
Sulphonation	.....	[1] .....
Deodorizing	.....	3,226,000
Winterizing for salad oil	.....	[1] .....
Shortening	.....	[1] .....
Oleomargarine	.....	.....
Other edible uses	[1]	7,264,000
Soap	[1]	[1] .....
Paint and varnish	.....	[1] .....
Other uses	[1]	128,000
Cottonseed—	Crude	Refined
Refining	199,397,000	.....
Sulphonation	.....	.....
Hydrogenation	.....	36,352,000
Deodorizing	.....	1,483,000
Winterizing for salad oil	.....	44,730,000
Shortening	.....	15,322,000
Oleomargarine	.....	5,224,000
Other edible uses	.....	1,042,000
Soap	.....	[1] .....
Paint and varnish	.....	[1] .....
Other uses	.....	[1]75,000
Fish—	Menhaden	Sardine
Refining	[2]	[2] .....
Fat-splitting	.....	.....
Sulphonation	[2]	326,000
Soap	.....	.....
Paint and varnish	1,828,000	724,000
Linoleum and oilcloth	[2]	27,000
Lubricants and greases	102,000	.....
Other uses	[2]936,000	[2]304,000
Fish, other—	Crude	Refined
Refining	.....	.....
Paint and varnish	11,000	114,000
Other uses	[2]616,000	287,000
Fishliver, other than cod—		
Sulphonation	.....	.....
Lubricants and greases	.....	.....
Other uses	.....	[2]278,000
Linseed—	Raw	Refined
Refining	18,621,000	.....
Fat-splitting	465,000	.....
Soap	[1]	[1] .....
Paint and varnish	10,250,000	13,090,000
Linoleum and oilcloth	6,534,000	1,081,000
Lubricants and greases	[1]	[1] .....
Other uses	5,410,000	5,140,000
Marine mammal—		All grades
Refining	.....	.....
Sulphonation	.....	384,000
Paint and varnish	.....	.....
Chemicals	.....	505,000
Lubricants and greases	.....	1,044,000
Other uses	.....	[2]
Neatsfoot—		All grades
Refining	.....	.....
Sulphonation	.....	55,000
Soap	.....	[2] .....
Chemicals	.....	.....
Lubricants and greases	.....	15,000
Other uses	.....	[2]220,000
Oiticica—		All grades
Paint and varnish	.....	571,000
Linoleum and oilcloth	.....	[1] .....
Other uses	.....	118,000
Olive—	Edible	Inedible
Edible uses	163,000	.....
Soap	[1]	.....
Other uses	[1]	.....
Oleo—		All grades
Shortening	.....	[2] .....
Oleomargarine	.....	[2] .....
Other edible uses	.....	[2] .....
Soap	.....	.....
Lubricants	.....	.....
Other uses	.....	[2] .....
Palm—	Crude	Refined
Soap	[1]	[1] .....
Lubricants and greases	[1]	.....
Other uses	3,228,000	[1] .....
Palmkernel—	Crude	Refined
Soap	[1]	[1] .....
Peanut—	Crude	Refined
Refining	[1]	[1] .....
Sulphonation	.....	119,000
Hydrogenation	.....	770,000
Deodorizing	.....	1,259,000
Winterizing for salad oil	.....	.....
Shortening	.....	[1] .....
Oleomargarine	.....	[1] .....
Other edible uses	.....	589,000
Soap	.....	7,000
Other uses	[1]	[1]253,000
Perilla—		All grades
Paint and varnish	.....	.....
Rapeseed—		
Lubricants and greases	.....	[1]120,000
Sesame, refined—		
All uses	.....	[2] .....
Soybean—	Crude	Refined
Refining	213,155,000	.....
Fat-splitting	[1]	.....
Sulphonation	12,000	52,000
Hydrogenation	.....	106,160,000
Deodorizing	.....	7,082,000
Winterizing for salad oil	[1]	.....
Shortening	.....	42,913,000
Oleomargarine	.....	5,469,000
Other edible uses	.....	8,311,000
Soap	.....	[1] .....
Paint and varnish	684,000	6,640,000
Chemicals	.....	[1] .....
Lubricants and greases	37,000	4,000
Linoleum and oilcloth	[1]	1,080,000
Other uses	6,729,000	[2]6,936,000
Tallow—		All grades
Soap	.....	[2]
Lubricants and greases	.....	529,000
Other uses	.....	.....
Tung—	Pounds	
Paint and varnish	3,360,000	
Chemicals	.....	
Lubricants and greases	.....	
Linoleum and oilcloth	25,000	
Other uses	601,000	
Vegetable, not specified—		
Refining	8,611,000	
Fat-splitting	787,000	
Hydrogenation	[1]1,223,000	
Sulphonation	[1]47,000	
Winterizing for salad oil	16,499,000	
Shortening	117,000	
Oleomargarine	15,000	
Other edible uses	[1]314,000	
Soap	[1]1,722,000	
Paint and varnish	513,000	
Linoleum and oilcloth	[2]9,000	
Chemicals	[2]2,148,000	
Lubricants and greases	[1]56,000	
Other uses	[1]7,450,000	

Fats and Greases

Grease and lard oil—		
Sulphonation		194,000
Soap		.....
Lubricants and greases		1,954,000
Other uses		[2]993,000
Grease, not specified—		
Refining		.....
Fat-splitting		6,823,000
Winterizing		[1] .....
Sulphonation		.....
Hydrogenation		372,000
Pressing		6,[illegible]00
Soap		21,[illegible]000
Lubricants and greases		1,[illegible]000
Other uses		[2]304,000
Lard—	Rendered	Refined
Shortening	9,147,000	12,470,000
Oleomargarine	[2]	[2] .....
Hydrogenation	4,830,000	1,621,000
Other edible uses	471,000	950,000
Soap	.....	.....
Lubricants and greases	[2]	[2] .....
Other uses	[2]	[2] .....
Sperm, animal—	Edible	Inedible
Shortening	496,000	.....
Oleomargarine	275,000	.....
Other edible uses	[2]	.....
	.....	120,000
Other uses	[2]	[2]172,000
Vegetable—		
Shortening		5,195,000
Oleomargarine		1,042,000
Hydrogenation		2,749,000
Other edible uses		43,000
Other uses		.....
Tallow, edible—	Crude	Refined
Refining	[2]	.....
Fat-splitting	.....	.....
Hydrogenation	[2]	[2] .....
Sulphonation	.....	.....
Shortening	1,501,000	290,000
Soap	[2]	.....
Lubricants and greases	[2]	.....
Other uses	[2]72,000	[2]9,000
Tallow, inedible—	Crude	Refined
Refining	22,086,000	.....
Fat-splitting	11,947,000	.....
Hydrogenation	1,321,000	[2] .....
Pressing	[2]	[2] .....
Sulphonation	509,000	.....
Soap	46,058,000	19,492,000
Lubricants and greases	2,141,000	.....
Other uses	[2]4,796,000	[2]133,000

Fatty Acids and Acid Stocks

Animal oil foots (100 percent basis)—	
Soap	[2] .....
Other uses	[2] .....
Fatty acid stocks, not specified—	
Refining	.....
Fat-splitting	.....
Sulphonation	.....
Soap	368,000
Paint and varnish	71,000
Linoleum and oilcloth	[2] .....
Lubricants and greases	[2] .....
Other uses	[2]235,000
Fish and marine mammal fatty acids—	
Sulphonation	[2] .....
Paint and varnish	.....
Lubricants and greases	126,000
Other uses	293,000
Fish and marine mammal foots (100 percent basis)—	
All uses	[2] .....
Oleic acid, including white oleic and red oil—	
Sulphonation	321,000
Soap	925,000
Paint and varnish	30,000
Chemicals	705,000
Lubricants and greases	304,000
Other uses	[2,3]1,580,000
Olive oil foots (including sulphur oil)—	
Soap	233,000
Other stearic acids (over 50% stearic content), high palmetic (over 60% palmetic), hydrogenated animal and vegetable fatty acids.	
Sulphonation	[2] .....
Soap	[2] .....
Paint and varnish	126,000
Lubricants and greases	432,000
Chemicals	505,000
Other uses	[2,3]1,177,000
Stearic acid (40-50% stearic content)—	
Sulphonation	[2] .....
Soap	318,000
Paint and varnish	9,000
Lubricants and greases	137,000
Chemicals	563,000
Other uses	[2,3]2,602,000
Unsaturated animal fatty acids (unhydrogenated), other than oleic—	
Winterizing and pressing	3,470,000
Soap	1,132,000
Lubricants and greases	403,000
Other uses	[2]49,000
Unsaturated vegetable fatty acids (unhydrogenated)—	
Sulphonation	4,000
Hydrogenation	1,485,000
Soap	1,648,000
Paint and varnish	1,592,000
Lubricants and greases	12,000
Chemicals	494,000
Other uses	[2,3]1,660,000
Vegetable oil foots (100 percent basis)—	
Fat-splitting	9,038,000
Soap	3,727,000
Paint and varnish	76,000
Other uses	[2]384,000

Unclassified

Materials not shown separately—	
Refining	1,070,000
Fat-splitting	6,225,000
Hydrogenation	4,046,000
Sulphonation	699,000
Pressing	2,580,000
Shortening	[2]
Oleomargarine	1,805,000
Soap	2,977,000
Paint and varnish	[2] .....
Linoleum and oilcloth	[2] .....
Chemicals	4,077,000
Lubricants and greases	468,000
Other uses	[2]19,308,000

[1] Included in "Total of vegetable oil not shown separately, including small quantities for items for which data are not reliable."

[2] Not shown to avoid disclosure of figures for individual companies.

[3] Included in materials other than vegetable oils not shown separately, including small quantities for items for which data are not reliable.

Resources Conference Plans to Be Reviewed

A meeting will be held in Washington, D. C., April 20 to 22 by the sponsors of Resources for the Future, Inc., to review plans for the forthcoming Midcentury Conference on Resources for the Future. This organization, headed by Horace M. Albright, president of United States Potash Company, New York, is devoted to the support of research and education in the field of resource conservation and development—an outgrowth of the so-called Paley Commission on natural resources. It has received a grant of $150,000 from the Ford Foundation to prepare for and conduct the conference.

Resources for the Future has invited, as members of the council of sponsors, a group of natural leaders of public opinion to emphasize its feeling that resource and conservation problems are of concern to all citizens' groups. Those asked to serve are the heads of some forty national organizations representing a wide cross-section of business, labor, and agricultural groups; education, conservation, and scientific organizations, and citizens' associations that have a direct interest in the conservation and development of the nation's natural resources.

President Eisenhower, in reaffirming his interest in the resources conference, wrote Mr. Albright:—"I believe the full and economical development of natural resources is essential to economic growth and national security. I hope the conservation movement, begun under President Theodore Roosevelt, will continue to prosper and grow in influence. The demands placed upon our resource base of land, forests, minerals, fuels and water have been exceedingly great during recent years of war and defense preparation. The prospect for large continued requirements for resources and raw materials means we shall have to rely increasingly upon new sources, new technology, and more rigorous conservation. Clearly, the Government, as well as private groups—including industry, agriculture, labor, conservation, education—has a considerable responsibility for the better management of resources."

Albright Lauds Sponsors' Council

Mr. Albright expressed his conviction that the guidance of the council of sponsors at the preliminary April meeting and thereafter would assure the conduct of

—Continued on page 77

World Health Conference In Washington April 6-8

A National Conference on World Health will be held April 6 to 8 at the Shoreham hotel, Washington, D. C. The parley, which has been organized by the National Citizens Committee for the World Health Organization, is designed to provide an opportunity for people to study the problems and issues involved in world health work and which are faced by WHO.

An informal reception and buffet dinner will be held the evening of the sixth, and will be followed by the showing of a motion picture, "The Ancient Curse," which describes WHO malaria control work. The first general session is slated for April 7, which has been designated World Health Day. Among the topics to be discussed are "The Economic and Social Importance of Health and What Is Our Stake in World Health?"; "How Does the World Health Organization Work?"; "How Does WHO Work Together With Other International Organizations?", and "What Is Our Responsibility as Citizens Toward UN and Its Specialized Agencies?" Speakers will include Dr. Frank G. Boud-

—Continued on page 79

Chemical Industry's Role In Atomic Energy Outlined

The chemical industry seems to have three possible courses open for participation in atomic energy, Dr. Clarence E. Larson, director of the Oak Ridge (Tenn.) National Laboratory, told the Synthetic Organic Chemicals Manufacturers Association March 11 at the Commodore hotel, New York. The possible courses, he said, are:—Manufacture or utilization of isotopes, exploitation of chemical processes and improvements developed in the atomic energy program, and, most important, the utilization of the energy of the fissionable atoms for power.

The contributions of the chemical industry in bringing the atomic energy business to its present high stage of improvement was outlined by Dr. Larson in a broad discussion of the world's energy supply. He pointed out that uranium as a source had a potential twenty times that of what might be available from our world reserves of energy from coal, oil and gas.

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Current Market Quotations

Chemicals and Related Materials

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Unless otherwise indicated, listings are first-hand quotations prevailing, according to information and belief, March 13 on large lots, f.o.b. New York, with the lowest in the left-hand column and the highest in the right-hand column. The listings do not represent bid and asked prices nor a range over the week. Differences between high and low may be accounted for by differences in quantity, quality, locality, or individual suppliers' views.

Index to Reports on Price Changes and Other Market Aspects

Acids 38
Agricultural Chemicals 44
Aromatic Chemicals 63
Botanical Drugs 61
Coal Chemicals 48
Drugs 53
Essential Oils 63
Fats and Greases 71
Fertilizer Materials 44
Fine Chemicals 53
Gums 61
Heavy Chemicals 38
Lacquer Materials 67
Leather Chemicals 51
Naval Stores 67
Oil Cake and Meal 71
Oils 71
Paint Materials 67
Pesticides 44
Petroleum Derivatives 46
Protective Coating Materials 67
Spices 61
Textile Chemicals 51
Varnish Materials 67
Waxes 71

A

Acacia (see Gum arabic).
Acenaphthene below 92.5 C., m.p., dms. works lb. .40 - —
over 92.5 C., m.p., bbls., dms., works lb. .41 - .50
Acetaldehyde, 99% dms., c.l., frt. equald lb. .1250- .1435
l.c.l., frt. equald lb. .1350- .1535
tanks, frt. equald lb. .1050- .1300
Acetaldol (see Aldol)
Acetanilide, tech., bbls., c.l., dlvd. lb. .26½- —
l.c.l., ton lots lb. .27½- —
smaller lots lb. .30½- —
USP, bbls., 2,000-lb. lots lb. .80 - —
smaller lots lb. .81 - .86
Acetic anhydride, dms., c.l., dlvd. E, lb. .16 - —
l.c.l, dlvd. E lb. .17½- —
tanks, dlvd. E lb. .14½- —
Acetoacetanilide, fib dms., c.l. dlvd. lb. .73 - —
l.c.l., dlvd lb. .74 - —
Acetoacetorthochloroanilide, fib. dms., c.l., dlvd. lb. 1.22 - —
l.c.l., dlvd. lb. 1.23 - —
Acetoacetorthotoluidide, fib. dms., c.l., dlvd lb. .78 - —
l.c.l., dlvd lb. .79 - —
Acetone, CP dms., c.l., dlvd. lb. .10¼- .11¾
l.c.l., dlvd lb. .11 - .12½
tanks, dlvd lb. .06¼- .10
Methyl (see MD
Acetonitrile, dms., c.l., works lb. .45 - —
l.c.l., works lb. .47 - —
Acetophenetidin, USP, bbls., works, frt. equald lb. 1.15 - 1.17
Acetophenone, cns. dms lb. 1.35 - 1.85
tech., dms., l.c.l., works lb. .75 - —
Acetyl (N) para-aminophenol, dms., frt. adjusted lb. 1.50 - 1.60
Acetyltributyl citrate, tech., dms., c.l. lb. .37½- —
l.c.l lb. .38½- —
tanks lb. .36 - —
Acetyltriethyl citrate, tech., dms., c.l. lb. .37½- —
l.c.l. lb. .38½- —
tanks lb. .36 - —
Acid, abietic, com'l, dms., c.l., works lb. .12 - —
l.c.l., works lb. .1390- —
cryst., dms., c.l., works lb. .06½- —
l.c.l., works lb. .07 - .07½
Acetic, com'l or redist., 28%, bbls. 100 lbs. 5.50 - —
56%, bbls. 100 lbs. 9.65 - —
70%, bbls. 100 lbs. 11.70 - —
80%, bbls. 100 lbs. 12.45 - —
glacial, synthetic, CP, dms., works 100 lbs. 15.00 -16.00
USP cbys, inclusive works, 100 lbs. 24.00 -25.00
tech., dms., c.l., works 100 lbs. 10.50 -12.50
l.c.l., works 100 lbs. 11.00 -13.50
tanks, works frt. equald 100 lbs. 9.00 -11.50
USP, dms. works 100 lbs. 13.50 -14.50
Acetic anhydride (see Acetic anhydride above).
Acetylsaticylic USP special, bbls., makers, primary distrib., point of ship't, 1000-lb. lots lb. .60 - —
standard, fine cryst., gran., (30-40 mesh) powd. (80 mesh), bbls. same basis, lb. .53 - —

Freight equald, ship't identical quantity over standard routes, from N. Y., Phila., Midland, Mich., Chicago and St. Louis.

Adipic, fib. dms., works lb. .30½- —
Aminoacetic, NF, bbls., frt. adjusted lb. 1.50 - 1.75
Anthranilic, resub., bbls lb. 2.10 - —
tech., bbls., frt. equald lb. 1.10 - —
Arsenous, tech (see Arsenic, white).
USP (see Arsenic trioxide).
Ascorbic USP dms., 25-50 kilo lots, kilo. 21.00 - —
10-kilo lots kilo. 21.35 - —
5-kilo lots kilo. 21.75 - —
bots., 1-kilo lots kilo. 22.00 - —
500-gram lots kilo. 22.50 - —
Battery, cbys. c.l., works, E, 100 lbs. 2.40 - —
l.c.l., works, E 100 lbs. 2.80 - 6.20
Benzoic, tech., bbls., dms., 100-lb. lots or more lb. .425 - .450
USP, bbls., dms. 100-lb. lots or more lb. .525 - .540
Betahydroxynaphthoic (see Acid, betaoxynaphthoic).
Betaoxynaphthoic, bbls., works lb. 1.14 - —
Boric, tech., 99½% cryst., bgs., c.l., works ton. 120.75 - —
ton lots, ex whse., N. Y. or Chi ton. 166.50 - —
less ton lots same basis, ton. 171.50 - —
bbls., c.l., works ton. 145.25 - —
ton lots, ex whse., N. Y. or Chi ton. 191.00 - —
less ton lots same basis, ton. 196.00 - —
bulk, c.l., works ton. 116.75 - —
gran., bgs., c.l., works ton. 95.75 - —
ton lots, ex whse., N. Y. or Chi ton. 141.50 - —
less ton lots same basis, ton. 146.50 - —
bbls., c.l., works ton. 120.25 - —
ton lots, ex whse., N. Y. or Chi ton. 166.00 - —
less ton lots same basis, ton. 171.00 - —
bulk, c.l., works ton. 91.75 - —
powd., bgs., c.l., works ton. 100.75 - —
ton lots, ex whse., N. Y. or Chi ton. 146.50 - —
less ton lots same basis, ton. 151.50 - —
bbls., c.l., works ton. 125.25 - —
ton lots, ex whse., N. Y. or Chi ton. 171.00 - —
less ton lots, same basis, ton. 176.00 - —
bulk, c.l., works ton. 96.75 - —
USP $25 per ton higher.

Acid, broenner's, bbls lb. 1.47 - —
Butyric, 99%, dms., c.l., works, lb. .34 - —
l.c.l., works lb. .34½- —
tankcars, works lb. .32½- —
Cacodylic, bots lb. 10.50 -13.00
Camphoric natural, dms lb. 4.00 - 4.75
synth., dms lb. 4.00 - 4.75
Capric, 90%, dms lb. .32¼- .33½
Caprylic, 90%, dms lb. .32¼- .33½
Cassello, dms., frt. alld lb. 1.44 - —
Castor oil, dms lb. .22½- .23
Chicago, bbls., frt. alld lb. 3.21 - —
Chlorosulphonic, dms., c.l., frt. equald lb. .039 - —
l.c.l., frt. equald lb. .044 - .059
tanks, frt. equald lb. .034 - —
Cholic, 25-100-lb. bots., fiber dms. lb. 9.25 -10.00
Chromic, 99½-99¾%, dms., c.l., works lb. .27 - .27½
l.c.l., works lb. .27½- .28½
NF (see Chromium trioxide)
Cinnamic, refd., bots lb. 2.50 - 3.50
Citric, anhyd., gran., fine gran., dms., c.l. lb. .26½- —
10,000-lb. lots, 1 ship't, lb. .27 - —
smaller lots lb. .27½- —
kgs. lb. .28½- —
USP, gran., fine gran., dms., c.l lb. .24½- —
10,000-lb. lots, 1 ship't, lb. .25 - —
smaller lots lb. .25½- —
kgs. lb. .26½- —
Powdered anhydrous, and powdered USP citric acid, ½c. higher.
Cleve's, mixed bis lb. .75 - —
Coconut oil, dist., dms lb. .24 - .24½
tankcars lb. .22½- .23
double dist., dms lb. .24½- .25
tankcars lb. .23 - .23½
Corn oil, dist., dms lb. .12 - .12¾
tanks lb. .10¼- —
Cottonseed oil, dist., dms lb. .12 - .12¾
double, dist., dms lb. .12½- .13¼
Cresylic, coaltar, dom., 50% 207°C or above, ret. dms., c.l., frt. equald gal. .98 - —
l.c.l., same basis gal. 1.02 - —
non-ret. dms., c.l., same basis gal. 1.01 - —
l.c.l., same basis gal. 1.04 - —
tanks, same basis gal. .90 - —
204° to 207°C, ret dms., c.l., same basis gal. 1.03 - —
l.c.l., same basis gal. 1.06 - —
non-ret. dms., c.l., same basis gal. 1.06 - —
l.c.l., same basis gal. 1.09 - —

Acid, cresylic, coaltar, dom., 204° to 207°C., tanks, same basis gal. .93 - —
tmp., 75% at 215°C. or over, dms., ex whse gal. .75 - .93
petroleum, dom., 195° to 213°C, non-ret. dms., c.l., San Francisco and Los Angeles gal. .71 - —
l.c.l., same basis gal. .73 - .75
tanks, same basis gal. .58 - —
200° C to 222° C, tanks, Wilmington, Cal gal. .53 - .63
211° C to 236° C, non-ret. dms., c.l., San Francisco and Los Angeles gal. .63 - —
l.c.l., same basis gal. .65 - .67
tanks, same basis gal. .50 - —
220° C to 242° C, tanks, Wilmington, Cal gal. .50 - .53
245° C to 298° C, tanks, Wilmington, Cal gal. .45 - —
Crotonic, fib. dms., works lb. .45 - —
Cyanoacetic, tech. bbls lb. .90 - 1.25
Dehydrocholic, injection, fib. dms., 10 to 100-lb. lots lb. 20.00 - —
oral, fib., dms., 10 to 100-lb. lots lb. 17.00 - —
Desoxycholic, fib. dms., 10 to 100-lb. lots lb. 22.75 -23.50
Dichlorophenoxyacetic (see under "D" 2,4-D).
Diethylbarbituric (see Barbital)
Diglycolic, bgs., works lb. .14 - —
Ethylhexoic, dms. c.l., works lb. .35 - —
l.c.l., works lb. .35½- —
tanks, works lb. .33½- —
F, crude, paste, bbls., works lb. 1.67 - —
Folic, bots., fib cns., kilo or more gram 1.60 - —
Formic, 85%, cbys., c.l., works lb. .1420- .1470
l.c.l., works lb. .145 - .157
90%, cbys., c.l., works lb. .1475- .1525
l.c.l., works lb. .1500- .1625
Fumaric, tech. bbls, dms lb. .37 - .38
Gallic, NF VII, bbls., 1,000-lb. lots, lb. 1.80 - —
smaller lots lb 1.82 - 2.00
technical, bbls., 1,000-lb. lots lb. 1.58 - —
smaller lots lb. 1.69 - 1.78
Gamma, dry, ground, bbls., frt. alld lb. 1.50 - —
paste, bbls., frt. alld lb. 1.45 - —
Gentisic, 100-lb fib dms lb. 8.50 - —
Gluconic, tech., 50%, bots lb. .23½- .31½
dms lb. .14½- —
cbys. lb. .17½- —
Glutamic 99½% laevo, fib. dms., 100-lb lots, works lb 2.45 - 2.53
25-lb. lots, works lb. 2.60 - 2.68
Glycerophosphoric, 35%, dms., works lb. 2.25 - 2.35

Acid, glycolic (see Acid hydroxyacetic).
H, bbls., works, basis 100% lb. .82 - —
Hydriodic, 1.50 s.g., cbys lb. 2.67 - —
1.70 s.g., cbys lb. 2.98 - —
Hydrobromic, medicinal, 48%, cbys., dlvd. E lb. .37 - .43
Hydrochloric, 18°, cbys., c.l., works 100 lbs. 2.45 - 3.80
l.c.l., dlvd. Metropolitan area 100 lbs. 3.50 - 4.30
tanks, works ton. 25.00 - 29.00
20°, cbys., c.l., works 100 lbs. 2.70 - 3.05
l.c.l., dlvd. Metropolitan area 100 lbs. 3.50 - 4.30
tanks, works ton. 27.00 - 33.00
22°, cbys., c.l., works 100 lbs. 3.30 - 3.40
l.c.l., dlvd. Metropolitan area 100 lbs. 3.50 - 4.30
tanks, works ton. 32.00 - 36.00
CP, USP, consumers, cbys., extra, c.l., works lb. .11¾- —
l.c.l., same basis lb. .13¼- .13¾
5 pint bottles, extra, cs., c.l., same basis lb. .16¾- —
l.c.l., same basis lb. .19¼- —
Acid, hydrochloric, CP, USP, prices to dealers 1½c. per lb less.
Muriatic (see Acid, hydrochloric).
Hydrocyanic, cyls., frt. alld lb. .75 - .95
dilute, NF, 2%, 5-lb. bots lb. .40 - —
Hydrofluoric, anhyd., cyls., works, lb. .24 - .25
tanks, works lb. .18 - —
70%, steel dms., works lb. .1535- .1935
Hydrofluosilicic, 30-35%, bbls., works lb. .07 - —
Hydroxyacetic, tech., 70%, bbls., non-return., Phila., basis 100% lb. .12 - —
tanks, Belle, W Va., basis 100% lb. .085 - —
Hypophosphorous, purif., 50%, cbys lb. 1.30 - 1.32
USP, cbys lb. .88 - —
Isonicotinic, 100 lb. fib. dms, works lb. 8.00 -10.00
J, bbls., works, basis 100% lb. 2.50 - 2.85
Koch, bbls., frt. alld lb. .64 - .70
L, bbls. frt alld lb. 1.25 - —
Lactic, edible, 50% bbls., 20 or more lb. .17 - .20
smaller lots lb. .17½- .21
80%, bbls., 5 or more lb. .30 - .3640
less than 5 bbls lb. .305 - .3690
plastic grade, 50% bbls., 20 or more, works lb. .21¾- —
1 to 19 lb. .22¼- .22¾
80%, bbls., 5 or more lb. .3815- —
tech., 22%, bbls., c.l., works, 100 lbs. 6.30 - —
l.c.l., works 100 lbs. 6.70 - —
cbys., works 100 lbs. 7.20 -12.20
44%, bbls., c.l., works 100 lbs. 11.45 -11.95
l.c.l., works 100 lbs. 11.85 -12.50
NF, 85%, cbys lb. .85 - .88
Laurent's, bbls lb. .60 - .87
Lauric, 90%, dms lb. .36¼- .37½
60%, dms lb. .23¼- .24
Linseed oil, dist., dms lb. .2110- .2160
water-white, dms lb. .2410- .2460
Maleic, cryst., powd., dms. lb. .37 - .38
Malic, tech., dms lb. .50 - —
Mandelic, NF, dms., 1,000-lb. lots, lb. 2.35 - —
smaller lots lb. 2.40 - 2.50
Metanilic, dms., works lb. .57 - .75
Methacrylic, dms., c.l., and truckloads, works lb. .76 - —
less than truckload works lb 76½- .80
Molybdic, 85-92%, dms, works lb. 1.27 - —
Monochloroacetic, purified, flake, 99%, dms lb. .23½- .25½
tech., flake, 96-97%, dms lb. .20 - .22
Myristic, dms lb. .28½- .29¼
Naphthenic, 220-230 acidity, dms., works lb. .14 - —
tanks, works lb. .12 - —
Naphthol(1)-4-sulphonic (see Acid, Neville and Winther's)
Naphthol(1)-5-sulphonic (see Acid, L).
Naphthol(1)-5-sulphonic,3-amino (see Acid, S).
Naphthol(1)-3,6-disulphonic,8-amino (see Acid, H).
Naphthol(2)-6,8-disulphonic (see Acid, Gamma).
(2)-7-Sulphonic,2-amino (see Acid, J).
Naphtholsulphonic, mixed (see Acid, Cleve's, mixed).
Naphthylamine(1)-5-sulphonic (see Acid, Laurent's).
(2)-6-sulphonic (see Acid, Broenner's).
(2)-7-sulphonic (see Acid, F).
(2)-1-sulphonic (see Acid, Tobias).
Neville and Winther's, dms., frt. alld lb. 1.05 - —
Nicotinic, USP, dms., frt. adjusted kilo. 9.00 - 9.30
Amide (see Nicotinamide).
Nitric 36° Be cbys., c.l., works, E, 100 lbs. 5.00 - —
l.c.l., works E 100 lbs. 5.30 -11.10
38° Be cbys., c.l., works E, 100 lbs. 5.50 - —
l.c.l., works E 100 lbs. 5.80 -11.60
40° Be cbys., c.l., works E, 100 lbs. 6.00 - 6.50
l.c.l., works E 100 lbs. 6.30 -12.10
42° Be cbys., c.l., works E, 100 lbs. 6.50 - 7.00
l.c.l., works E 100 lbs. 6.80 -12.60
60% HNO_3, tanks, works, basis 100% 100 lbs. 3.25 - —
95% HNO_3, tanks, works, basis 100% 100 lbs. 4.25 - —
CP, NF, consumers, cbys., extra c.l., works lb. .13½- —
l.c.l., same basis lb. .15 - .15¼
5 pint bottles, extra, cs., c.l., same basis lb. .17½- —
l.c.l., same basis lb. .19 - .25
Oleic, single distilled, dms lb. .12¼- .13¾
tanks lb. .10¾- —
double distilled (white), dms. lb. .15 - .16¼
tanks lb. .13½- —
Oleum (see Acid, sulphuric, fuming).
Orthochlorobenzoic, fib. dms., works lb. 1.13 - —
Orthocresotinic, dms., ton lots, works lb. .66 - —
smaller lots, works lb. .68 - —

Abbreviations

Used in OPD Market Quotations

ACS	American Chemical Society	dest-dist.	destructive-distilled	neut.	neutral
		dextro	dextrorotatory	NF.	National Formulary
alld.	allowed	dist.	distilled	No.	number
ammo.	ammonia	distr.	distributor	nom.	nominal
amorph.	amorphous	djns.	demijohns	ord.	ordinary
AMP.	American melting point	dlvd.	delivered	oz.	ounce
		dms.	drums	Pac.	Pacific
anhyd.	anhydrous	dom.	domestic	pf.	proof
a.p.a.	available phosphoric acid	E.	east	phos.	phosphate
		e.p.	end point	photo.	photographic
artif.	artificial	equald.	equalized	pkgs.	packages
ASTM.	American Society for Testing Materials	F	fahrenheit	powd.	powdered
		ferment.	fermentation	precip.	precipitated
		ffa.	free fatty acid	prod.	producer
Be.	Baume	ffc.	free from chlorine	pt.	point
bbls.	barrels	fib.	fiber	pulv.	pulverized
bgs.	bags	f.o.b.	free on board	purif.	purified
bls.	bales	FPA.	free of prussic acid	redist.	redistilled
bots.	bottles			refd.	refined
b.p.	boiling point	frt.	freight	refy.	refinery
b.p.l.	bone phosphate of lime	fus.	fused	reg.	regular
		gal.	gallon	resub.	resublimed
b.r.	boiling range	gran.	granular	ret.	returnable
bxs.	boxes	grd.	ground	SD.	specially denatured
C.	centigrade	i.&a.	iron and aluminum	s.d	single distilled
cbys.	carboys			S. E.	southeast
CD.	completely denatured	i.b.p.	initial boiling point	secs.	seconds
c.i.f.	cost, insurance, freight			s.g.	specific gravity
		imp.	imported	shipt.	shipment
cks.	casks	incl.	included	solut.	solution
c.l.	car lots	indust.	industrial	s.u.	standard unit
cns.	cans	kgs.	kegs	synth.	synthetic
col.	color	lacq.	lacquer	tanks.	railroad tankcars
		lb.	pound		
coml.	commercial	l.c.l.	less than car lots	tech.	technical
conc.	concentrated	liq.	liquid	USP.	U. S. Pharmacopoeia
CP.	chemically pure	m.a.p.	mixed anilin point		
cps.	centipoises			vis.	viscosity
cryst.	crystal	M c.f.	thousand cubic feet	VM&P	varnish makers & painters
cs.	cases				
ctns.	cartons	min.	minimum	W.	west
cyls.	cylinders	m.p.	melting point	whse.	warehouse
dbl.	double	N.	nitrogen	w w.	water white
denat.	denatured	nat.	natural		

A unit-ton is 2,000 pounds of 1 percent of the basic constituent or other standard of the material. The percentage figure of the basic constituent multiplied by the price figure shown gives the price of 2,000 pounds of the material

Acid, Oxalic—Alcohol, Isopropyl

Acid, oxalic, bbls., c.l., works lb. .1575- .1590
10,000-lb lots, works lb. .16 - .1615
smaller lots, works lb. .17 - .1715
Palm oil, double dist., dms lb. .12¼- .13
Para-aminobenzoic, tech., dms., lb. 1.74 - 1.77
USP dms, 1,000-lb lots or more, works lb. 2.50 - —
smaller lots lb. 2.55 - 2.60
Para-aminosalicylic, dms., 1,000-lb lots or more, frt. adjusted lb. 4.25 - —
smaller lots, same basis lb. 4.30 - 4.75
Parachlorobenzoic, fib dms., works lb. 1.59 - 1.62
Paramethylphenylcinchonic (see Neocinchophen)
Paranitrobenzoic, dms lb. .77 - —
Paratoluidinmetasulphonic, bbls., works lb .92 1.04
Phenylacetic, bots lb. 1.45 - 1.60
tech dms, 1,000-lb lots lb .90 —
Phenylcinchoninic (see Cinchophen).
Phenylglycolic (see acid mandelic).
Phosphoric, food grade, 75%, chys, c.l., works 100 lbs 7.00 7.10
l.c.l., works 100 lbs 7.50 8.00
tanks, works 100 lbs 4.90 5.00
NF 85%, chys, c.l. works lb .08 .08¼
l.c.l., works lb .08½ .09¼
Picric, NF 300-lb bbls lb .55 —
dms, small lb .81 .87
tech., bbls lb .22 .33
Propionic, synthetic pure, dms., c.l., works lb. .258 - —
l.c.l., works lb .263 - —
tanks, works lb. .19 - .243
Pyrogallic, NF, (see Pyrogallol) tech., bbls lb 2.76 2.99
Pyroligneous, cms., incl., l.c.l, works gal. .36 - —
whse. gal. .504 - —

Acid, ricinoleic (see Acid, castor oil, split).
S, bbls., works lb. 3.25 - —
Salicylic, crude, bgs lb. .38 - —
sublimed, tech., bbls., c.l. lb. .37 - —
l.c.l. lb. .44 - —
dyestuffs grade, bbls lb. .39 - —
USP, cryst., bbls lb. .46 - —
powder, bbls lb. .51 - —
Sebacic, purified, dms., c.l., works, lb. .80 - —
l.c.l., works lb. .82 - .84
Soybean oil, double dist., dms. lb. .14 - .15¼
single, dist., dms lb. .13½- .14¾
Stearic, double pressed, bgs lb. .11½- .12¾
single pressed, bgs lb. .11 - .12¼
triple-pressed, bgs lb. .13¾- .15
Succinic, purified, cryst., bbls., works lb .63 - .75
Sulphanilic, tech., dms., c.l., frt. alld lb. .18 - —
l.c.l., frt. alld lb. .20 - —
Sulphuric, 60° Be, chys., c.l., works 100 lbs. 1.75 - —
l.c.l., works 100 lbs 2.05 2.85
tanks, works ton 16.30 —
66° Be, chys., c.l. works 100 lbs 2.00 2.10
l.c.l. works 100 lbs 2.30 3.10
tanks, works ton 20.00 —
96-100% tanks works ton 21.00 —
CP, NF, consumers chys., extra, c.l., works, frt. equald. lb. .09¾ - —
l.c.l., same basis lb. .11¼ - .11¾
5 pt. bots., extra, cs., c.l., works, frt. equald lb. .13¼ - —
l.c.l., same basis lb. .14¾ - .20¾
fuming, 20% tanks, works ton 22.40 - —
Tallow, dist., dms lb. .10 - .11¼
hydrogenated, dms lb. .11 - .12¼

Acid, tannic, NF, fluffy, bbls., 1,000-lb lots lb 1.59 - 1.60
smaller lots lb. 1.65 - 1.76
powder, bbls., 1,000-lb. lots lb. 1.50 - —
smaller lots lb. 1.51 - 1.69
tech., dms lb. .95 - —
Tartaric USP, dom. 230, 250-lb., dms, c.l lb. .37 - —
10,000-lb. lots, 1 ship't lb. .37½- —
smaller lots lb. .38 - —
100-lb. dms lb. .39 - —
small dms lb. .41 - .47
imported, bgs lb. .27 - —
Thioglycolic, refined, bgs., chys., basis 100% lb. 1.60 - 1.86
Tolnas, bbls., frt. alld lb. .74 - —
Toluenesulphonic, dms., c.l., works works lb. .16 - —
l.c.l., works lb. .17½- —
Trichloroacetic, bots. lb. 2.00 - 2.50
Trichlorophenoxyacetic (see under "T" 2,4,5 T)
Tungstic, tech, kgs., works lb. 4.30 - —
Undecylenic dms. lb. 1.40 - —
Aconite leaves, bls lb. .35 - .40
root, bls lb. .45 - .90
Aconitine, amorph, mild, bots oz. 27.50 -32.50
cryst., potent, bots oz. 78.00 -85.00
Acrolein, tech. grade, dms., works, lb. .47½- —
Acrylonitrile dms., c.l., works. lb. .44½- —
l.c.l. works lb. .45 - .47
tanks, works lb 43 - —
ACTH, bots gm. 25.00 - —
Adeps lanae (see Lanolin).
Adonis, vernalis herb, bls. lb. .22 - .24
Adrenocorticotropic hormone—see ACTH
Agar, USP, Kobe No. 1, strip, bls. lb. 1.95 - 2.00
powdered, 30 mesh, fib. dms, lb. 2.25 - —
Agaric, white, bas lb. 2.25 Nom.
Agrimony herb, bls lb. .25 - .30
Alanine, dextro-laevo, dms., works, lb. 8.50 -11.00

Albumen (egg) edible, flake, bbls., lb. 2.49 - 2.51
powder, bbls lb. 2.53 - 2.57
tech., cryst., bbls lb. 1.03 - 1.07
Albumin, blood, dark (see Blood, dried (soluble).
light, dms., l.c.l. lb. .67 - .80
Egg (see Albumen).
Alcohol, allyl, dms., c.l., dlvd lb. .31¾- —
l.c.l. dlvd lb. .32½- —
tanks, dlvd. lb. .30 - —
Amyl, ex fusel oil (see Fusel oil, ref.)
ex pentane, dms., c.l., frt. alld. E. of Rockies lb. .16¾- —
l.c.l., frt. alld E. of Rockies lb. .17½- —
tanks, frt. alld E of Rockies lb. .15 - —
fermentation, ref'd., 126°-132°C, dms., c.l., dlvd lb. .32¾- —
l.c.l., dlvd lb. .33¾- .36
tanks, dlvd lb. .31 —
128-132° C. dms. l.c.l. dlvd. lb. .33¾- .36.
ACS grade, dms., l.c.l., dlvd lb. .35¾- —
synthetic, normal, dms., c.l., works lb. .42 - —
l.c.l., works lb. .43 - —
tanks, works lb. .40 - —
secondary, dms. c.l., frt. alld. E lb. .23¼- —
l.c.l., frt. alld. E lb. .24 - —
tanks, frt. alld E lb. .21½- —
tertiary, dms. c.l., frt. alld E. lb. .19¾- —
l.c.l., frt. alld. E lb. .20½- —
tanks, frt. alld. E lb. .18 - —
Benzyl, NF, dms lb. .64 - .79
tech., dms, dlvd lb. .47¼- .49
Butyl, fermentation, normal, dms., c.l., frt. alld lb. .14¾- —
l.c.l. frt. alld lb. .15½- —
tanks, frt. alld lb. .13 - —
synthetic, normal, dms., c.l., dlvd lb. .14¾- —
l.c.l., dlvd lb. .15½- —
tanks, dlvd lb. .13 - —
secondary, dms., c.l., dlvd. lb. .12¾- —
l.c.l., dlvd lb. .13½- —
tanks, dlvd lb. .11 - —
tertiary, dms., c.l., frt. alld. lb. .13¾- —
l.c.l., frt. alld lb. .14½- —
tanks, frt. alld lb. .12 - —
Capryl, 85%, dms., c.l., works lb. .15 - —
l.c.l., works lb. .15½- —
tanks, works lb. .13½- —
95%, dms., c.l., works lb. .16½- —
l.c.l., works lb. .17 - —
tanks, works lb. .15 - —
Cetyl, extra, fib., cns., 500-lb lots or more lb. .78 - —
smaller lots lb. .80 - —
NF, fib., cns., 140-lb lots or more lb. .58 - .82
smaller lots lb. .59 - .82
Cinnamic, bots lb. 2.25 - 3.20
Decyl, bots lb. 2.00 - 2.50
Denatured, CD12, CD13, CD14, CD17, dms., c.l., dlvd. E. of Rockies gal. .54½- .68¼
l.c.l., dlvd., same basis gal. .58½- .72½
tanks, dlvd., same basis gal. .42½- .56½
Tankcar sales require written authorization by Alcohol and Tobacco Tax Unit.
Proprietary solvent, dms., c.l., dlvd. E. of Rockies gal. .55 - .69½
l.c.l., same basis gal. .59 - .78½
tanks, same basis gal. .43 - .57¼
Tankcar sales require written authorization by Alcohol and Tobacco Tax Unit.
SD1, dms., c.l., dlvd. E. of Rockies gal. .55 - .69
l.c.l., same basis gal. .59 - .78
tanks, same basis gal. .43 - .57
SB2B, dms., c.l., dlvd. E. of Rockies gal. .53 - .68
l.c.l., same basis gal. .57 - .77
tanks, same basis gal. .41 - .56
SD3A, dms., c.l., dlvd. E. of Rockies gal. .53 - .67
l.c.l., same basis gal. .57 - .76
tanks, same basis gal. .41 - .55
SD23A, dms., c.l., dlvd. E. of Rockies gal. .55½- .69
l.c.l., same basis gal. .59½- .73
tanks, same basis gal. .43½- .57
SD23H, dms., c.l., dlvd. E. of Rockies gal. .55½- .69½
l.c.l., same basis gal. .59½- .78½
tanks, same basis gal. .43½- .57½
SD29-1, dms., c.l., dlvd. E. of Rockies gal. .53½- .68½
l.c.l., same basis gal. .57½- .77½
tanks, same basis gal. .41½- .56½
SD30, dms., c.l., dlvd. E. of Rockies gal. .52½- .66½
l.c.l., same basis gal. .56½- .75½
tanks, same basis gal. .40½- .54½
SD35A, dms., c.l., dlvd. E. of Rockies gal. .53½- .70
l.c.l., same basis gal. .59½- .79
tanks, same basis gal. .43½- .58
SD40, dms., c.l., dlvd. E. of Rockies gal. .54 - .68½
l.c.l., same basis gal. .58 - .77½
tanks, same basis gal. .42 - .56½
Diacetone, acetone free, dms., c.l., dlvd lb. .13¾- —
l.c.l., dlvd lb. .14½- —
tanks, dlvd lb. .12 - —
tech., dms., c.l., dlvd lb. .13¼- —
l.c.l., dlvd lb. .14 - —
tanks, dlvd lb. .11½- —
Ethyl, 190 pf., USP, tax paid, dms., c.l., dlvd. E. of Rockies, gal. 20.47 -20.62
l.c.l., same basis gal. 20.51 -20.71
tanks, same basis gal. 20.35 -20.50
tax free, dms., c.l., dlvd. E. of Rockies gal. .52 - .67
l.c.l., same basis gal. .56 - .76
tanks, same basis gal. .40 - .55
absolute, 200 pf., tax paid, dms., c.l., dlvd. E. of Rockies, gal. 21.57 -21.72
c.l., same basis gal. 21.61 -21.81
tanks, same basis gal. 21.45 -21.60
Ethylbutyl, dms., c.l., works lb. .29¼- .29½
l.c.l., works lb. .30 - —
tanks, works lb. .28 - —
Ethylhexyl, dms., c.l., dlvd. E. lb. .27¾- —
l.c.l., same basis lb. .28¾- —
tanks, same basis lb. .26¼- —
Furfuryl, tech., cns., works lb. .31 - —
dms., c.l., works lb. .22½- —
l.c.l., works lb. .24 - —
tanks, works lb. .19½- —
Isoamyl (see Alcohol, amyl, fermentation, refined).
Isobutyl, dms., c.l., dlvd lb. .13¾- —
l.c.l., dlvd lb. .14½- —
tanks, dlvd lb. .12 - —
Iso-octyl, dms., c.l., dlvd lb. .26¼- —
l.c.l. dlvd. lb. .27 - —
tanks, dlvd. lb. .24½- —
Isopropyl, refd., 91%, dms., c.l., dlvd gal. .50½- —
l.c.l., dlvd gal. .55½- —
tanks, dlvd gal. .38½- —
95%, dms., c.l., dlvd gal. .52¾- —
l.c.l., dlvd gal. .57¾- —
tanks, dlvd gal. .40¾- —
99%, dms., c.l., dlvd gal. .55 - —
l.c.l., dlvd gal. .60 - —
tanks, dlvd gal. .43 - —

SPECIFY

CYANAMID STEARATES

UNIFORM, PURE

ALUMINUM
CALCIUM
LEAD
MAGNESIUM
ZINC

Write for "Cyanamid Metallic Stearates—Specifications" and samples

American Cyanamid Company
Manufacturers Chemicals Department
30 Rockefeller Plaza
New York 20, N. Y.
Gentlemen:
Please send me the items checked.
☐ "Cyanamid Metallic Stearates—Specifications"
Sample — ☐ Aluminum stearate ☐ Calcium stearate ☐ Lead stearate ☐ Magnesium stearate ☐ Zinc stearate
Name_____ Position_____
Company_____
Address_____
City_____ State_____
In Canada: North American Cyanamid Limited, Toronto and Montreal

AMERICAN Cyanamid COMPANY
MANUFACTURERS CHEMICALS DEPARTMENT
30 ROCKEFELLER PLAZA, NEW YORK 20, N. Y.

Alcohol, lauryl, bots.....lb. 2.00 - 2.50
Methyl (see MethanoD).
Methylamyl (see Carbinol, methyl-isobutyl)
Octyl, perfumer's grade, bots..lb. 2.00 - 3.25
technical (see Octanol normal).
Pentothenyl (see Panthenol).
Phenylethyl, dms.....lb. 1.57 - 2.15
Propyl, normal, dms., c.l., dlvd.
lb. .12 - —
l.c.l., dlvd.....lb. .13 - —
tanks, dlvd.....lb. .10 - —
Polyvinyl, various grades, bgs., ton lots, works lb. .72½- .76
smaller lots works lb. .77½- .81
Tetrahydrofurfuryl, cns., Waverly, N. Y. lb. .49¼- —
dms., Niagara Falls, N. Y. lb. .42½- —
l.c.l., Waverly, N. Y.... lb. .45 - —
tanks, Niagara Falls, N. Y lb. .40 - —
industrial grade, dms. c.l., Niagara Falls, N. Y. lb. .29 - —
l.c.l., Waverly, N. Y. lb. .30 - —
tanks, Niagara Falls, N. Y lb. .27 - —
Aldol, 95%, dms., works..... lb. .23 - —
denaturing grade, dms.....gal. 2.15 - —
Aldrin, 60% solut., dms., c.l. works frt. alld. lb. .64½- —
l.c.l., works, frt. alld....lb. .76½- —
Aletris root, bgs.....lb. 1.20 - 1.25
Algin (see Sodium alginate).
Alkanet root, bgs.....lb. .35 - .50
Allethrin, 100%, dms., frt., alld lb.32.00 - —
90%, dms., frt. alld ..... lb.28.80 - —
solution, 20%, dms. 100-lb. lots frt. alld lb. 6.65 - —
2½%, dms., frt. alld.....gal. 6.00 - —
Allspice (see Pimento)
Allyl bromide, cbys., works..... lb. 1.35 - 1.40
Chloride, dms., c.l., dlvd..... lb. .16¾- —
l.c.l., dlvd. ..... lb. .17½- —
tanks, dlvd. ..... lb. .15 - —
Starch, solid, dms., works..... lb. .52¾- .54¾
solution, 40% toluol-butanol, dms., works lb. .25½- .26¼
Aloe, Cape, cs .....lb. .29 - .32
powdered, cs. .....lb. .38 - .45
Curacao, kgs. .....lb. .50 - .55
Socotrine, kgs.....lb. .25 - .35
Aloin, USP, bbls., dms., kgs .. lb. 4.25 - 4.70
Alphanaphthol, bbls., frt. alld... lb. .85 - —
Alphanaphthylamine, bbls., frt. alld. lb. .45 - —
Alphanitronaphthalene, bbls., frt. alld lb. .41 - —
Alphapicoline, ret. dms., c.l., works, frt. equald..lb. .43½- —
l.c.l., works, frt. equald....lb. .44 - —
Alphapinene, tanks, South, works.. gal. No prices.
Alphaterpineol, dms., l.c.l., dlvd. lb. .17 - —
Alphatocopherol, bots.....kilo.250.00 - —
Acetate, bots.....kilo.250.00 - —
Althea root, NF, peeled, bls..... lb. .20 - .33
Alum, ammonium, gran., bgs., works 100 lbs. 3.80 - —
lump, dms., works....100 lbs. 4.55 - 4.95
powd., dms., works....100 lbs. 4.70 - 5.10
USP, burnt, dms..... lb. .20 - .21
hydrous, dms..... lb. .07¾- .08
Potassium, gran., bgs., works. 100 lbs. 4.05 - —
lump, dms., works....100 lbs. 4.80 - 5.20
powd., dms., works....100 lbs. 4.95 - 5.35
USP, burnt, dms..... lb. .20 - .21
hydrous, dms..... lb. .07¾- .08
Potash-chrome, dms..... lb. .17 - —
Sodium, dms., c.l., works. 100 lbs. 4.60 - —
t.c.l., works .....100 lbs. 5.00 - —
Alumina, calcined, bgs., c.l., works. lb. .0385- —
l.c.l., works.....lb. .0410- .0510
crystalline (see Aluminum oxide).
Aluminum acetate, basic solut., 24%, bbls., l.c.l., works lb. .14 - —
Chloride, com'l, anhyd., dms., c.l., works, frt. equald lb. .15 - —
l.c.l., works, frt. equald. lb. .1550- —
cryst., dms., c.l., works.... lb. .1030- —
l.c.l., works.....lb. .1070- —
solution, 32°, cbys., c.l., works. lb. .0369- —
l.c.l., works..... lb. .0435- .0960
tankcars, works...100 lbs. 2.80 - —
NF, gran., dms., works..... lb. .29 - .31
Fluoride, tech., anhyd., bgs., c.l., works. lb. .11½- —
l.c.l., works ..... lb. .12¾- —
Aluminum fluoride, fiber dms., 35c. per 100 lbs. higher.
Formate, basic solution, cbys. lb. .09½- —
l.c.l., works..... lb. .10 - —
Hydrate, heavy, bgs., c.l., frt. equald. ton.60.00 - —
l.c.l., works ..... ton.65.00 -85.00
light, bgs., dlvd..... lb. .17 - —
Hydroxide, gel., pharmaceutical, 14-15% Al_2O_3, fib. dms., works lb. .22 - —
contract, works..... lb. .21 - —
8-9½%, Al_2O_3, fib. dms., works lb. .19 - —
contract, works..... lb. .18 - —
dried, USP, XIV, fib., dms., works. lb. .82½- —
contract, works..... lb. .79½- —
powder, tech (see Aluminum hydrate).
Laurate, precip., bbls..... lb. .44 - —
Metal, 99%+, ingots, 10,000-lb. lots, frt., alld. lb. .20½- —
pigs, 10,000-lb. lots frt., alld., lb. .19½- —
Oxide, amorphous (see Alumina, calcined).
crystalline, flour, classified, 6-240 mesh, dms. frt. alld. lb. .14 - .15
kgs., frt. alld.....lb. .12½- —
smaller lots, frt. alld. lb. .13 - .13
238-400 mesh, dms., frt. alld. lb. .32 - .33
kgs., frt. alld ..... lb. .31 - —
500 mesh, dms., frt. alld. lb. .35 - .37
kgs., frt. alld ..... lb. .34 - —
600 mesh, dms., frt. alld. lb. .51 - .53
kgs., frt. alld..... lb. .50 - —
Aluminum oxide flour prices W. of Denver ¾c. per lb. higher.
optical, floated, kgs., dlvd....lb. .36 - .86
unclassified, dms., frt. alld. lb. .16 - .17
kgs., frt. alld..... lb. .15 - —
Paste, lining, extra-fine, dms lb. .59½- —
standard, dms..... lb. .41 - —
Powder, lining, extra fine, dms.lb. .97½- —
standard, dms ..... lb. .68½- —
rubber grade, dms..... lb. .58½- —
unpolished, standard, dms....lb. .54½- —
varnish, standard, dms..... lb. .59 - —
Aluminum powder and paste prices are f.o.b. shipping point. Add 1c. per lb. for 100-lb. dm., 1½c. per lb. for 50-lb. dm., 3c. per lb. for 10-lb. can and 5c. to 12c. per lb. for smaller containers. Deduct 1c. per lb. for single shipment of 400 to 1,499 lbs., 2c. for 1,500 to 4,999 lbs., 3c. for 5,000 to 29,999 lbs., and 4c. for 30,000 lbs. or more. Where destination is within the continental U. S., a deduction equivalent to the lowest available common carrier transportation rate will be made from seller's invoice on orders of 200 lbs. or over.
Resinate, precip., dms., frt. alld. lb. .27½- —
Stearate, dibasic, ctns., c.l.... lb. .33 - —
ton lots or less..... lb. .34 - —
monobasic, ctns., c.l..... lb. .33 - —
ton lots or less..... lb. .34 - —
tribasic, ctns., c.l ..... lb. .33 - —
ton lots or less..... lb. .34 - —

Aluminum sulphate, com'l, bulk, c.l., works..100 lbs. 1.65 - —
ground, bgs., works.....ton.33.00 - —
lump, bgs., works .....ton.36.00 - —
iron-free, bgs., c.l., works, frt. equald 100 lbs. 3.25 - —
l.c.l., works, frt. equald 100 lbs. 3.65 - 6.15
USP, gran., dms., works.... lb. .13 - .15
powd., dms., works ..... lb. .14 - .16
Trihydrate heavy (see Aluminum hydrate)
Ambergris, gray, bots.....oz. 8.00 -10.00
Ambrette seed, bgs.....lb. .63 - .66
Aminoazotoluene, bbls..... lb. .94 - 1.03
Aminoethylethanolamine, dms., c.l., dlvd. lb. .46½- —
l.c.l., dlvd..... lb. .47½- —
tanks, dlvd..... lb. .45 - —
Aminomethylpropanol, cns., dms., works lb. .60 - —
Aminophyllin, USP, 100-lb. dms lb. 4.30 - —
Aminopyrine, USP, bots, dms lb 6.00 - 6.15
Ammonia, anhydrous, fertilizer, tanks, works..ton.79.00 -82.00
pure, cyls., extra, tone 1.... lb. .17 - .17¼
2 ..... lb. .17 - .18
3 ..... lb. .17 - .19
4 ..... lb. .20 - .21
5 ..... lb. .16 - .19
refrigeration tanks, works..ton.81.50 -84.50
Aqua (29.4%, NH_3), dms., c.l., dlvd., Met. area ..100 lbs. 3.60 - —
t.c.l. works 100 lbs 4.00 - —
tanks, works, anhyd. basis..ton.86.00 -90.00
Ammoniac gum (see Gum, ammoniac).
Sal, gray, bgs., c.l., works, frt. equald 100 lbs. 8.25 - —
t.c.l., same basis...100 lbs. 8.65 -11.15
white, gran., bgs., c.l., works 100 lbs 4.75 - —
t.c.l., works.....100 lbs. 6.50 - —

Ammoniacal liquor, tankcars, works, anhyd. basis..ton.90.00 - —
Ammonium acetate, purified, dms.lb. .38 - —
Benzoate, USP, dms., kgs., 4,000 lb. lots, frt. alld lb. .80 - —
smaller lots, frt. alld.....lb. .81 - 1.08
Biborate, bbls., c.l., works....ton.312.00 - —
ton lots, ex whse .....ton.375.00 - —
less ton lots, ex whse ...ton.380.00 - —
Bicarbonate, dom., dms., c.l., works. lb. .06 - —
t.c.l., works..... lb. .07 - —
imported, dms., l.c.l..... lb. .07¼- .08¼
Bichromate, bbls., works..... lb. .34½- .36½
Bifluoride, dms., dlvd ..... lb. .2035- .2160
Bromide, NF, gran., bbls..... lb. .38 - .39
dms. ..... lb. .39 - .42
Powdered ammonium bromide 10c. per lb. higher
Carbonate, USP, lump, powd., dms lb. .23 - .24
Chloride, tech. (see Ammoniac sal).
USP, gran., bbls., dms.... lb. .17¼- —
Citrate, dibasic, bbls ..... lb. .75 - —
dms. ..... lb. .80 - .85
Fluoride (see Ammonium bifluoride).
Hydroxide (see Ammonia aqua).
Hypophosphite, NF, dms..... lb. 2.40 - —
Iodide, NF, bots., jars ..... lb. 4.01 - 4.13
Linoleate, 80%, dms., works. lb. .50 - .55
Nitrate, fertilizer grade, Canadian eastern, 33.5% N, bgs., c.l., shipping point..ton.72.50 - —
western, 33.5% N., bgs., f.o.b. cars, Los Angeles ton.86.84 - —
domestic, bgs., western, works ton.64.00 - —
with dolomite, 20.5% N, bgs., Hopewell, Va ton.51.00 - —

Ammonium oxalate, fine gran., dms. lb. .25 - .31
Pentaborate, gran., bbls., c.l., works ton.222.00 - —
ton lots, ex whse .. ton.285.50 - —
less ton lots, ex whse ton.290.00 - —
Ammonium pentaborate powder, $10 per ton higher
Perchlorate, kgs., works.....lb. .50 - .75
Persulphate, kgs..... lb. .38 - —
Phosphate, com'l, bgs., c.l., works, frt. equald lb. .08½- —
l.c.l., same basis ... lb. .09 - —
dibasic, NF, V bbls., dms lb. .45 - —
tech., bgs., c.l., works, frt. equald lb. .08½- —
t.c.l., same basis .... lb. .09 - —
Salicilate, NF, dms., kgs.....lb. 1.62 - 1.64
Silicofluoride, dms. works.... lb. .11 - .12
Sulphamate, bbls. dms., works.lb. .12 - .20
Sulphate, coke-oven, bulk, producing ovens..ton.44.00 -49.50
synthetic, bgs. c.l., western, works ton.50.00 -54.50
bulk, works .....ton.47.00 -49.50
purified, dms., works .. lb. .07½- .08½
Sulphide, liq., 40-45%, dms., c.l., basis 100% works ton.211.50 - —
t.c.l., basis 100% works.ton.312.50 - —
tanks, dlvd or frt alld ton.181.50 - —
Sulphocyanide, tech. (see Ammonium thiocyanate).
Thiocyanate, tech., dms., c.l., works lb. .18 - —
t.c.l., works ..... lb. .19 - .20
Thioglycollate, com'l, cbys., basis 100% lb. 1.60 - —
highly purified, cbys., basis 100%..lb. 1.70 - 1.96

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Ammonium Thiosulphate—Biotin

Ammonium thiosulphate, cryst., photo grade, fib. dms., frt. alld lb. .65 - —
60% solution, dms., c.l., works lb. .06½- —
Amphetamine hydrochloride dibasic, dextro, bots lb.28.00 - —
dextro-laevo, dms lb. 6.00 - —
monobasic, dextro, bots lb.28.00 - —
Phosphate, dibasic, dextro, bots.lb.28.00 - —
dextro-laevo, dms lb. 6.00 - —
Sulphate, dextro, dms lb.28.00 - —
dextro-laevo, dms lb. 6.00 - —
Amyl acetate ex fusel oil, tech., E of Rockies lb. .16¾- —
t.c.l., same basis lb. .17½- —
tanks, same basis lb. .15 - —
ex pentane dms., c.l., frt. alld. E of Rockies lb. .20 - —
t.c.l. same basis lb. .21 - —
tanks, same basis lb. .18 - —
Alcohol (see Alcohol amyl).
Butyrate dms lb. .90 - 1.05
Cinnamic aldehyde, dms lb 1.70 - 2.10
Nitrite, USP, bots lb 1.75 - 1.83
Salicylate, cns., dms lb. .75 - .95
Anethol, NF, cns., dms lb. 1.00 - 1.50
Angelica root dom. bls lb. .60 - .70
imported, bls. lb. .40 - .95
Angostura bark, bls lb. .43 - .48
Anilin oil, dms., c.l., works, frt. allo. lb .19 - —
t.c.l., works, frt alld lb. .20 - —
tanks, works frt allo lb. .18 - —
Salt dms frt allo lb .30 - —
Anise, Balkan, bgs lb. .12 - .12¼
Chinese, star, bgs lb. .87 - .95
Czech, bgs lb. .12 - .12½
Mexican, bgs. lb. .14 - .14½
Spanish, bgs lb. .17 - .17½
Syrian, bgs lb. .13½- .14
Turkish, bgs lb. .13¼- .14

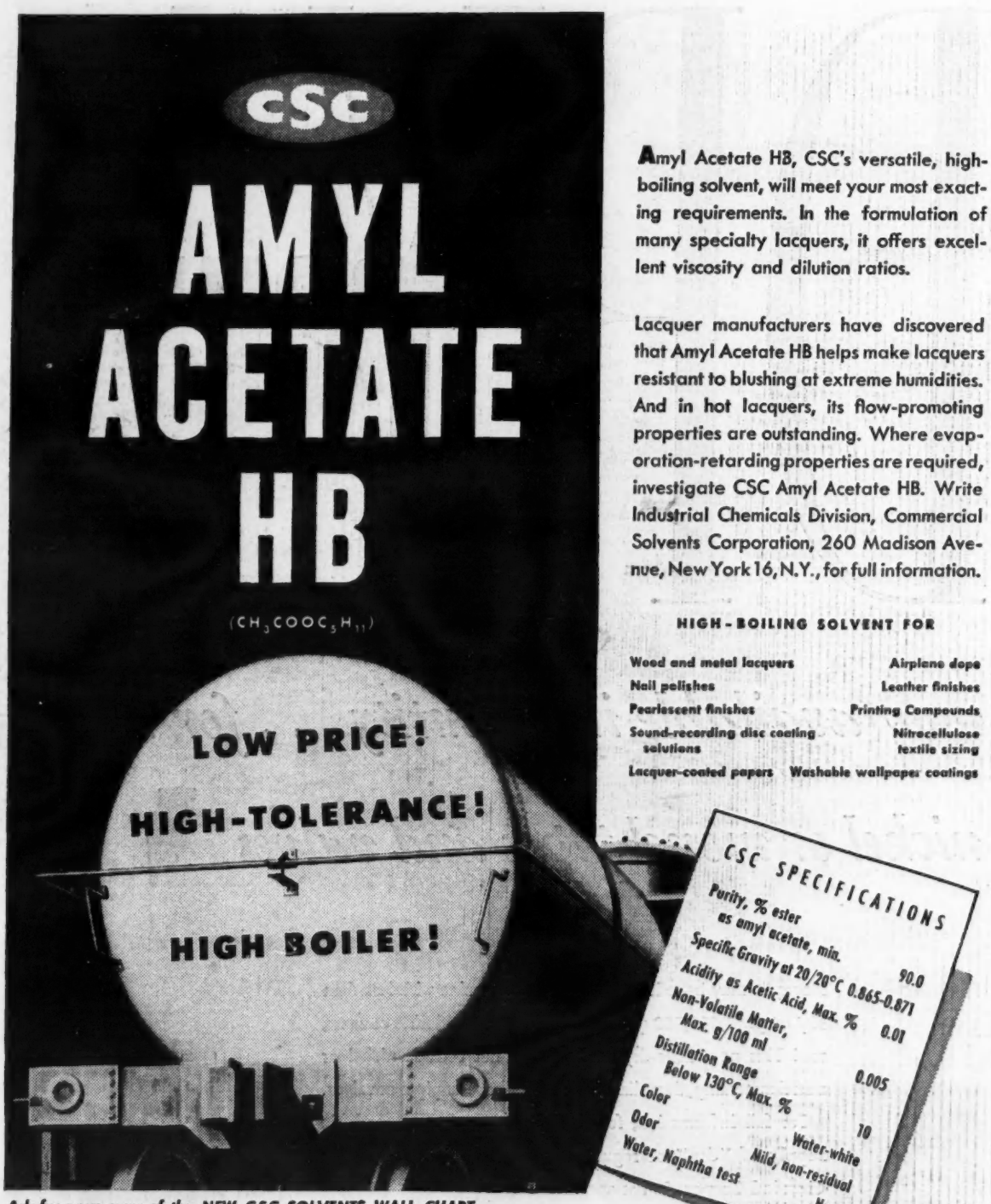
Anisic aldehyde, bots., dms lb 2.35 - 2.80
Annatto seed, whole, bgs lb. .26 - —
powdered, dms lb. .28 - —
Anthracene, 90-95%, bbls., ton-lots, works lb. .80 - —
smaller lots, works lb. .85 - —
Anthraquinone, 99.5%, bbls., frt. allo lb. .85 - .88
Antimony butter (see Antimony trichloride).
Metal, bulk, c.l., mines lb. .34½- —
cases, c.l., mines lb. .35 - —
Oxide, bgs., c.l., frt. allo lb. .27½- .38
l.c.l., frt. allo lb. .29 - .39½
Sulphide, 62-64%, bgs. dlvd lb. .38 - .38½
Trichloride, pans, c.l., works lb. .43 - .47
l.c.l., works lb. .45 - .49
solution, cbys., works lb. .29 - .30
Antimony-potassium tartrate (see Tartar emetic.
Antipyrene, NF, dms lb. 2.50 - 2.60
Apomorphine hydrochloride, USP, bots oz.23.40 -23.90
Areca nuts, powd., bbls. lb. .16 - .19
Arecoline hydrobromide, NF, bots, tins oz. 5.00 - 5.75
Arginine monohydrochloride, laevo, dms., 1 kilo lots kilo.77.00 - —
Argols, min 50%, bgs., shipment ports, per 100 kilos, basis 100% lb. No prices.
Arnica flowers (true montana), bls. lb. .70 - .71
root, bls lb. 1.45 - —
Arrowroot, powd., bgs lb. .11 - .14
Arsenic metal, lump, bbls., prompt ship't lb. .80 - .90
Trioxide, USP dms lb. .48 - —
White, powd., bbls., c.l., dlvd lb. .05½- —
l.c.l. dlvd. lb. .06½- .07½

Asafetida, cs lb. .32 - .35
powd., bbls., dms lb. .50 - .53
Asbestine (see Talc, fibrous, N. Y.).
Asbestos, Canadian, crude, No. 1, c.l. (20 tons), mines ton.1,300.00- —
No. 2, c.l. (20 tons), mines ton.675.00 - —
Run-of-mine, c.l. (20 tons), mines ton.556.00 - —
3K, c.l. (20 tons), mines ton.436.00 - —
3R, c.l. (20 tons), mines ton.371.00 - —
3T, c.l. (20 tons), mines ton.348.00 - —
3Z, c.l. (20 tons), mines ton.321.00 - —
4K, c.l. (20 tons), mines ton.173.00 - —
4M, c.l. (20 tons), mines ton.173.00 - —
4T, c.l. (20 tons), mines ton.156.00 - —
4Z, c.l. (20 tons), mines ton.156.00 - —
5D, c.l. (20 tons), mines ton 122.50 - —
5K, c.l. (20 tons), mines ton.122.50 - —
5M, c.l. (20 tons), mines ton.116.50 - —
5R, c.l. (20 tons), mines ton.110.00 - —
6D, c.l. (30 tons), mines ton 78.00 - —
7D, c.l., (30 tons) mines ton.68.50 - —
7F, c.l. (30 tons), mines ton.65.00 - —
7H, c.l. (30 tons), mines ton.55.00 - —
7K, c.l. (30 tons), mines ton.46.00 - —
7M, c.l. (30 tons), mines ton.40.00 - —
7R, c.l. (30 tons), mines ton.39.00 - —
7T, c.l. (30 tons), mines ton.37.00 - —
7RF, c.l., (30 tons), mines ton.40.00 - —
7TF, c.l. (30 tons), mines ton 40.00 - —
8S, c.l. (30 tons), mines ton 37.00 - —
Asbestos c.l. prices are in U. S. funds. L.c.l. lots, $4 per ton higher.
Asphalt, gilsonite, black, seconds, 300°-390°F. fusing point not uniform, bgs. c.l., Craig, Colo.; Heber City, Utah ton.34.00 - —
select, 350°F. fusing point, bgs., c.l., same basis ton.38.00 - —
270°-295°F. fusing point bgs., c.l., same basis ton.37.00 - —
jet, bgs., c.l., same basis ton.34.00 - —
Manjak, No. 10, crude, dms., works lb. .06½- —

Asphalt, petroleum, cut-back, tanks, tankwagon, refinery gal. .09 - —
emulsion, tanks, tank-wagon, refinery gal. .09½- .10
steam-refd., less than 80 penetration, tanks, tankwagon, refinery ton.22.00 - —
80-300 penetration, tanks, tankwagon, refinery ton.21.00 - —
Aspirin (see Acid, Acetylsalicylic.)
Atropine, USP, bots oz. 9.35 -10.00
Sulphate, USP, bots oz. 4.50 - 5.00

B

Bacitracin, bulk, 1,000,000,000 or more units 50,000 units. .70 - —
less than 1,000,000,000 units 50,000 units. .75 - —
Balm of Gilead buds, dried, bgs lb. 1.35 - 1.45
Barberry root bark, bags lb. .30 - .35
tree bark, bgs. lb. .40 - .45
Barbital, USP, 100 lb. dms lb. 5.00 - —
Sodium, USP dms lb. 5.25 - 5.27
Barium, carbonate, precip., bgs., c.l., works ton.85.50 - —
smaller lots, works ton.95.50 - —
Chlorate, kgs., works lb. .34 - .38
Chloride, anhyd., bgs., c.l., works, bgs. ton.152.00 - —
t.c.l., works ton.162.00 - —
NF, cryst., dms lb. .16 - —
Chromate, bgs., frt. equald lb. .30 - —
Dioxide (see Barium peroxide).
Hydrate, crystals, bgs ton.190.00 -200.00
Iodide, bots lb. 6.14 - —
Monoxide (see Oxide).
Nitrate, bbls., c.l., works lb. .12½- —
l.c.l., works lb. .14 - —
Oxide, grd., dms., c.l., works ton.250.00 - —
t.c.l., works ton.260.00 - —
Peroxide, dms., works lb. .16 - —
Stearate, cns., c.l. lb. .37 - —
ton lots lb. .38 - —
less ton lots lb. .39 - —
Sulphate, tech. (see Barytes and Blanc fixe).
X-ray, bbls. lb. .14 - —
Sulphide, dms., c.l., works ton.71.50 - —
l.c.l., works ton.81.50 - —
Barytes, Southern off-color, bgs., mines ton.20.00 - —
95.75% bgs. mines ton.20.00 - —
water-grd., paper bgs., c.l., St. Louis ton.37.60 -37.85
ex-whse., N. Y. ton.53.45 -61.75
Bauxite, bulk, mines ton. 9.50 -10.00
Bay leaves (see Laurel leaves).
Belladonna, leaf, bls lb. .35 - .50
root, bls. lb. .35 - .40
Belladonna leaf, bls lb. .32 - .40
Bentonite, dom., 200 mesh bgs., works ton.12.50 - —
imported, Italian, white, high gel., bgs., 10 tons to c.l., ex dock ton.65.90 - —
5 ton-lots, ex whse. ton.77.80 - —
1 ton lots, ex whse. ton.80.30 - —
low gel, bgs., 10 tons to c.l., ex dock ton.63.40 - —
5 ton-lots, ex whse. ton.75.60 - —
1 ton lots, ex whse. ton.78.10 - —
Benzal chloride, cbys. works lb. .22 - .23½
Benzaldehyde, NF, dms lb. .74 - 1.05
tech., cbys., dms lb. .49 - .80
Benzene (see Benzol).
Hexachloride, 99% gamma isomer (see Lindane).
tech., bgs., dms., c.l., works, gamma unit-lb. .0091- .01
l.c.l., works, gamma unit-lb. .015 - —
dust dry, distributors, dms., c.l., dlvd., gamma unit, lb. .015 - —
l.c.l., dlvd., gamma unit-lb. .020 - —
wet, distributors, dms., c.l., dlvd., gamma unit lb. .025 - —
l.c.l., dlvd., gamma unit-lb. .0325- —
Benzidine base, bbls lb. 1.02 - —
dihydrochloride, bbls., frt. allo lb. .94 - —
Benzocaine, dms lb. 3.48 - 3.50
Benzol, pure, nitration, tanks, works
Bethlehem, Pa. gal. .38¾- —
Birmingham district gal. .36 - .38½
Chicago district gal. .36 - .36¾
Cleveland district gal. .36 - —
Geneva, Utah gal. .36 - —
Johnstown, Pa. gal. .36¾- —
Lackawanna, N. Y. gal. .38¾- —
Lone Star, Texas gal. .37 - —
Lorain, Ohio gal. .36 - —
Minnequa, Colo. gal. .36 - —
Philadelphia, Pa. gal. .38¾- .39
Pittsburgh district gal. .36 - .36½
Sparrows Point, Md. gal. .38¾- —
Syracuse, N. Y. gal. .38¾- —
Terre Haute, Ind. gal. .36½- —
Wyandotte, Mich. gal. .39 - —
Youngstown, Ohio gal. .36 - —
Benzophenone, dms lb. 1.40 - 1.70
Benzonitrile, dms., c.l., works lb. .46¾- —
l.c.l., works lb. .47 - —
Benzotrichloride, cbys., frt. equald. lb. .18 - .20
Benzoyl chloride, cbys., dms., c.l., works, frt. equald lb. .21½- .24½
l.c.l., same basis lb. .22½- .25½
Peroxide, pure, fib. ctns., works. lb 90 - 1.05
Benzyl acetate, f.f.c., cns., dms lb. .65 - 1.05
Alcohol (see Alcohol, benzyl)
Benzoate, USP, f.f.c., cns., dms. lb. .72 - .80
Chloride, tech., cbys., c.l., works, frt. equald lb. .21 - —
l.c.l., same basis lb. .24 - —
High grade benzyl chloride, 2c. higher.
Cinnamate, cns lb. 3.00 - 3.75
Formate, cns. lb. 1.30 - 2.10
Propionate, bots lb. 1.35 - 1.80
Salicylate, bots lb. 1.65 - 1.85
Benzylidinacetone, bots lb. 1.68 - 2.00
Benzylisoeugenol, cns. lb. 8.60 - 9.10
Berberine bisulphate, cns lb.35.00 -36.25
Hydrochloride, bots lb.35.00 -36.25
Berberis root, bls lb. .32 - .35
Betagammapicoline, 5°, dms., c.l., works lb. .31 - .32¼
l.c.l., works lb. .32 - .33
Betamethylnaphthalene, 32°C m.p., dms., works lb. .90 - —
Betanaphthol, resublimed, dms., works lb. .78½- —
tech., bbls., c.l., works lb. .32½- —
l.c.l., works lb. .34½- —
Benzoate, fib dms., works lb. 3.00 - —
custom contract lb. 1.65 - 1.85
Salicylate, dms lb. 5.00 - —
Sulphate, cns lb.35.00 -36.25
Betanaphthylamine, tech., bbls., works lb. 1.05 - 1.10
Betaphenylethylamine, dms., works, 1,000-lb. lots lb. 1.10 - —
smaller lots lb. 1.15 - 1.40
Betapicoline, 98%, dms., works lb. 1.05 - —
Beth root, bls lb. .40 - .41
Biotin, cryst., bots gram.10.00 - —



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Bismuth chloride, jars ..... lb. 5.11 - —
Hydroxide, dms ..... lb. 4.65 - —
Metal, nxs, ton lots ..... lb. 2.25 - —
Nitrate, cryst., dms ..... lb. 2.10 - —
Oxide, anhydrous, dms ..... lb. 4.47 - 5.05
Oxychloride, dms ..... lb. 4.37 - 4.42
Phenolsulphonate, fib, dms ..... lb. 5.22 - —
Subcarbonate, USP, dms ..... lb. 3.20 - —
Subgallate, NF, fib, dms ..... lb. 3.15 - —
Subiodide, fib, dms ..... lb. 5.37 - —
Subnitrate, NF, dms ..... lb. 2.65 - —
Subsalicylate, USP, dms ..... lb. 3.50 - —
Bismuth-ammonium citrate, USP, powd., jars lb. 4.22 - —
Black, acetylene, bgs., c.l., works lb. .16 - —
cs, l.c.l. ship't point ..... lb. .20 - .22
Bone, dms., l.c.l., frt. alld. lb. .15½- .22
Pacific coast bone black prices, 2c. per lb. higher.
Carbon, channel, heads, bulk, c.l., works lb .07 - —
bgs., c.l., works ..... lb. .0740- —
l.c.l., dlvd. or whse ..... lb. .1225- —
uncompressed, regular, bgs., c.l., works lb. .10 - —
l.c.l., dlvd. or whse lb. .10 - —
furnace, fast extruding, bgs., c.l., works lb. .05 - —
ctns, l.c.l., whse lb. .10 - —
high abrasion, bulk, c.l., works, lb. .0750- —
bgs., c.l., works lb. .0790- —
l.c.l., dlvd. or whse lb. .1250- —
high modulus, bgs., c.l., works, lb. .0550- —
ctns., l.c.l., whse lb. .0950- —
semi-reinforcing bgs., c.l., works lb. .04 - —
ctns., l.c.l., whse ..... lb. .08 - —
Charcoal (see C).
Graphite (see G)
Black, iron oxide, pure, bgs., c.l., works ..... lb. .1175- —
l.c.l., works ..... lb. .12 - —
Lamp, bgs., c.l., works ..... lb. .16 - .45
Mineral, bgs, works ..... lb. .0160- .0675
Black ash (see Barium sulphide).
Blackberry, root bark, bls ..... lb. .32 - .35
root, bls ..... lb. .15 - .16
Black dyes (see Dyes).
Black haw, root bark, bls ..... lb. .65 - .70
tree bark bls ..... lb. .40 - .42
Black Indian hemp root, bbls ..... lb. .60 - .61
Blanc fixe, dry, ny-product, bgs., c.l., works ton. 100.00 - —
l.c.l. works ..... ton. 110.00 - —
direct process, bgs., c.l., works, ton. 90.00 - —
l.c.l., works ..... ton. 100.00 - —
N. Y. whse ..... ton. 120.00 -130.00
pulp, 66⅔%, bbls, c.l., works ton. 84.00 - —
l.c.l., same basis ..... ton. 92.00 - —
Bleaching powder, dms., c.l., works, 100 lbs. 5.02 - —
l.c.l. works 100 lbs 6.52 - —
Blood, dried, 16-16½% ammo., bgs., unit-ton. 5.50 - —
high-grade, unground, 16-17% ammon., bgs., Chicago unit-ton. 5.50 - —
soluble, bgs., c.l. ..... lb. .16½- .18
l.c.l. ..... lb. .18 - .25
Bloodroot, bls ..... lb. .55 - .56
Blue, alkali dry, bbls., dlvd. N. or Tenn. and N. C., E. of Miss R. including St. Paul, Minneapolis, Davenport, Rock Island, St. Louis lb. 1.80 - 1.90
toner, bbls, litho flushed, same basis lb. 1.00 - 1.05
Chinese, bbls., same basis ..... lb. .45 - —
Blue, cobalt, genuine, bbls., same basis lb. 4.90 - —
imitation (see Blue, ultramarine)
Copper-phthalocyanine, full strength, bbls., same basis lb. 3.85 - —
resinated, bbls, same basis ... lb. 3.40 - —
water dispersable ..... lb. 1.54 - —
Iron (see Blue, Chinese, Milori, Potash, Prussian and Soda).
Methyl violet toner, molybdated, PMA bbls., same basis lb. 2.00 - —
tungstated, PTMA, bbls., same basis lb. 4.05 - —
Milori, bbls., same basis ..... lb. .45 - —
Peacock, fugitive, 100% color strength, bbls., same basis lb. .75 - —
Potash, CP, bbls., same basis lb. .56 - —
Prussian, insoluble, bbls., same basis lb. .45 - —
soluble, bbls., same basis lb. .48 - —
Soda, C.P., bronze, bbls., same basis lb. .45 - —
Ultramarine, cobalt type, dry or pulp, bbls., same basis lb. .28 - .30½
regular types, dry, bbls., same basis lb. .15 - .33½
Victoria toner, molybdic, PMA, bbls lb. 3.90 - —
tungstated, PTMA, bbls ..... lb. 5.35 - —
Blue, dry colors, dlvd. prices ¼c. higher Ala., Fla., Ga., La. (Shreveport, 1¼c.), Miss., N. C., S. C., Tenn., Tex. (El Paso, 2c.), Cedar Rapids, Des Moines, Kansas City, Lincoln, Omaha, St. Joseph, 1.6c. higher. Pac. Coast, Denver, Pueblo, Salt Lake City, Wichita frt. equalized with Chicago.
Blue dyes are listed under Dyes.
Blueflag, root, bls ..... lb. .45 - .46
Bluestone (see Copper sulphate).
Blue vitriol (see Copper sulphate).
Boldo leaves, bls ..... lb. .11 - .13
Bonemeal, steamed, works, E. ..... ton. 70.00 - —
Bone phosphate, defluorinated (see D), of lime (see Calcium phosphate, tribasic)
precipitate, (see Calcium phosphate tribasic, NF, precip.).
Bones, raw, bulk, Atlantic ports ton. 60.00 - —
Boneset leaves and tops, bls ... lb. .17 - .20
Borage flowers, bls ..... lb. .65 - .66
Borax, tech., anhydrous, bgs., c.l., works ..... ton. 74.50 - —
ton lots, ex whse., N. Y. or Chi ton. 120.25 - —
less ton lots, same basis, ton. 125.25 - —
bulk, c.l., works ..... ton. 67.50 - —
crystals, 99½%, bgs., c.l., works, ton. 63.75 - —
ton lots, ex whse, N. Y. or Chi ton. 109.50 - —
less ton lots, same basis ton. 114.50 - —
bbls., c.l., works ..... ton. 88.25 - —
ton lots, ex whse., N. Y., or Chi ton. 134.00 - —
less ton lots, same basis, ton. 139.00- —
bulk, c.l., works ..... ton. 59.25 - —
granular, 99½%, bgs., c.l., works, ton. 37.75 - —
less ton lots, same basis, ton. 88.50 - —
ton lots, ex whse., N. Y. or Chi ton. 83.50 - —
bbls., c.l., works ..... ton. 62.25 - —
ton lots, ex whse., N. Y. or Chi ton. 108.00 - —
less ton lots, same basis, ton. 113.00 - —
bulk, c.l., works ..... ton. 33.25 - —
powder, 99½%, bgs., c.l., works ton. 42.75 - —
ton lots, ex whse., N. Y. or Chi ton. 88.50 - —
less ton lots, same basis, ton. 93.50 - —
Borax, tech., powder, bbls., c.l., works ..... ton. 67.25 - —
ton lots, ex whse., N. Y. or Chi ton. 113.00 - —
less ton lots, same basis, ton. 118.00 - —
bulk, c.l., works ..... ton. 38.25 - —
Borax packed in kgs, $45.50 per ton higher than in paper bgs. UPS borax $15 per ton higher
Bordeaux mixture, bgs., c.l., works, frt. alld. or nearest whse, point lb. .161 - .221
l.c.l. same basis ..... lb. .171 - .241
Borneol, cns ..... lb. 2.25 - 2.50
Borontrifluoride gas, cyls., truckload, works lb. .62 - —
less truckload, works lb. .70 - —
Brazilwood extract (see Hypernic extract).
Brimstone (see Sulphur).
Bromine, purified cs, c.l., frt. alld, E. of Rockies lb. .25 - —
1,000-lb. lots, same basis lb. .27 - —
dms., lead-lined dlvd lb. .25 - —
Bromoform, pharmaceutical grade, bots lb. 1.62 - 2.60
cbys. ..... lb. 1.52 - —
Bromstyrol, bots ..... lb. 5.40 - 5.70
Bronze powder, aluminum (see Al).
Gold, litho, cns, dms, works, lb. .75 - .85
moulding, cns, dms, works lb. .85 - 1.00
printing ink, cns., dms., works lb. 1.05 - 1.25
radiator, cns, dms, works lb. .80 - .85
Broomtop, bls ..... lb. .30 - .35
Brown, iron oxide, pure, bgs., c.l., works lb. .1275- —
l.c.l., works ..... lb. .13 - —
Oxide, metallic, bgs, works ... lb. .0375- —
Sap, crystals, bgs, works ..... lb. .12 - —
powdered, bgs ..... lb. .13 - —
Brown, sienna, burnt, paper bgs., c.l., works lb. .04¼- .15¼
l.c.l., works lb. .04½- .15½
raw, paper, bgs., c.l., works lb. .04½- .13
l.c.l., works lb. .04¾- .13¼
Umber, burnt, American, bgs., c.l., works lb. .06 - —
l.c.l., works lb. .06¼- —
Turkey type, bgs., c.l., Boston, Bethlehem, Easton, Pa., Hiwassee, Va. N. Y lb. .06¼- —
l.c.l. works lb. .06½- —
raw, American, bgs., works lb. .06¼- .06½
Turkey type bgs., works lb. .06¼- .06½
Vandyke, bbls, works lb. .11 - —
Brucine, cns., 100-oz. lots ..... oz. .20 - .35
Sulphate, NF, cns., 100-oz. lots oz. .15 - .30
Bryonia root, bls ..... lb. .22 - .34
Buchu leaves, bls. ..... lb. .38 - .40
Buckthorn bark, bls ..... lb. .13 - .17
cut and sifted, bls ..... lb. .18 - .23
Berries, bgs ..... lb. .80 - .90
Burdock root, bls ..... lb. .22 - .26
Butadiene cyls, refinery ..... lb. .22 - —
tanks, same basis ..... lb. .12½- —
Butane, indust, tanks, group 3 gal. .05 - —
Butternut bark, bls lb. .23 - .25
Butyl acetate, fermentation, normal, dms., c.l., frt. alld lb. .14¾- —
l.c.l. same basis ..... lb. .15½- —
tanks, same basis ..... lb. .13 - —
synthetic, normal, dms, c.l., dlvd, E lb. .14¾- —
l.c.l., same basis ..... lb. .15½- —
tanks, same basis ..... lb. .13 - —
secondary, dms, c.l., dlvd, E. lb. .12½- —
l.c.l., same basis ..... lb. .13¼- —
tanks, same basis ..... lb. .10¾- —
Alcohol (see Alcohol butyl).
Butyl aldehyde, dms., c.l., dlvd. lb. .22½- —
l.c.l., dlvd. ..... lb. .23½- —
tanks, dlvd ..... lb. .20¾- —
Chloride, dms., c.l., works ..... lb. .37½- —
l.c.l., works ..... lb. .38 - —
Ether (see Ether butyl).
Lactate, dms., c.l., frt alld, E. of Rockies lb. .34¾- —
l.c.l., same basis ..... lb. .35¾- —
tanks, same basis ..... lb. .33 - —
Laurate, dms, works ..... lb. .39 - —
Methacrylate normal, dms., less truckloads works lb. .70 - —
Oleate, refd., dms., l.c.l., works. lb. .36 - —
Phenylacetate dms lb 4.50 - 4.60
Phthalate (see Dibutyl phthalate).
Stearate, dms, l.c.l., frt. equald more lb. .24 - .27½
Butylamine (see Mono-, Di- or Tri-).
Butyric ether (see Ethyl butyrate).

C

Cacao butter (see Cocoa butter).
Cadmium iodide, jars ..... lb. 5.56 - 6.75
Metal, ingots or sticks, cs., dlvd lb. 2.00 - —
Stearate, ton lots ..... lb. 1.42 - —
smaller lots ..... lb. 1.44 - —
Caffeine, natural, USP, cryst., dms, 100 lbs. or more lb. 3.30 - —
anhydrous, dms. lb. 3.50 - —
synthetic, USP, cryst., dms., 100 lbs. or more lb. 3.30 - —
anhydrous, dms 100 lbs. or more lb 3.50 - —
Citrated, USP, dms, 100 lbs or more lb 2.35 - —
Calamine, USP, dms ..... lb .34 - —
Butyl aldehyde, dms., c.l., dlvd. lb. .22½- —
l.c.l., dlvd. ..... lb. .23½- —
tanks, dlvd ..... lb. .20¾- —
Chloride, dms., c.l., works ..... lb. .37½- —
l.c.l., works ..... lb. .38 - —
Ether (see Ether butyl).
Lactate, dms., c.l., frt alld, E. of Rockies lb. .34¾- —
l.c.l., same basis ..... lb. .35¾- —
tanks, same basis ..... lb. .33 - —
Laurate, dms, works ..... lb. .39 - —
Methacrylate normal, dms., less truckloads works lb. .70 - —
Oleate, refd., dms., l.c.l., works. lb. .36 - —
Phenylacetate dms lb 4.50 - 4.60
Phthalate (see Dibutyl phthalate).
Stearate, dms, l.c.l., frt. equald more lb. .24 - .27½
Butylamine (see Mono-, Di- or Tri-).
Butyric ether (see Ethyl butyrate).

C

Cacao butter (see Cocoa butter).
Cadmium iodide, jars ..... lb. 5.56 - 6.75
Metal, ingots or sticks, cs., dlvd lb. 2.00 - —
Stearate, ton lots ..... lb. 1.42 - —
smaller lots ..... lb. 1.44 - —
Caffeine, natural, USP, cryst., dms, 100 lbs. or more lb. 3.30 - —
anhydrous, dms. lb. 3.50 - —
synthetic, USP, cryst., dms., 100 lbs. or more lb. 3.30 - —
anhydrous, dms 100 lbs. or more lb 3.50 - —
Citrated, USP, dms, 100 lbs or more lb 2.35 - —
Calamine, USP, dms ..... lb .34 - —

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CHLORINE (liquid)—Water works grade in cylinders and ton containers.

AMMONIA, Anhydrous—Commercial grade, tank cars. Refrigeration grade, tank cars and cylinders.

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Calamus Root—Charcoal

Calamus root, dom., natural, bgs. lb. .25 - .30
imported, bleached, bls lb. .70 Nom.
stripped, bls lb. .30 - .40
Calciferol, cryst., vials, 1 kilo lots, works gram. .30 - —
25 to 100 gram lots, works, gram. .90 - .95
in edible oil dms., 10,000 or more standard units (1 standard unit equals 1,000,000 USP units), works unit. .04¾- —
1,000 to 10,000 standard units, works unit. .05¼- —
less than 1,000 standard units, works unit .05¾- —
Calcium acetate, bgs. dlvd 100 lbs. 3.00 - 4.00
Arsenate dealers, dms., c.l., whse. works, frt., alld. on 96 lbs. or over lb. .09 - .10
l.c.l., same basis lb. .10 - .11
Bromide, NF, jars lb. .90 - .93
Carbide, standard generator size, dms., c.l., dlvd ton. 134.40 - —
Carbonate (see Chalk and Whiting).
Chloride, cryst., purified, bbls., jars lb. .28 - .30
flake, 77-80%, paper bgs., c.l., works, frt. equald ton. 25.00 - —
liquor, 40%, tankcars, works, frt. alld ton. 10.50 - —
pellets, bgs., c.l., works ton. 31.25 - —
powder, bgs., c.l., works ton. 35.63 - —
solid, 73-75%, dms., c.l., frt. equald ton. 23.50 - —
l.c.l., works, same basis ton. 32.00 - 69.00
USP, gran., bbls. lb. .30 - —
Chromate, bgs., frt. equald lb. .29½- .30
Cyanide, dms., dlvd E of Rockies, lb. .24 - .50

Calcium gluconate, AA, bbls., dms lb. .65 - .74
USP, bbls., dms lb. .59 - .67
Glycerophosphate, NF, fib. dms. lb. 2.00 - 2.15
Hydride, dms., works lb. 2.20 - 4.00
Hydrochlorite, high test, cns., cased (45 lbs.) dlvd, E of Rockies cs. 21.00 -23.00
100-lb. lots, same basis dm. 25.25 -29.85
Hypophosphite, dms., ton lots or less lb. .90 - .93
Iodide, jars lb. 4.32 - —
Lactate, USP, dms., 10,000-lb. lots or more, works lb. .40 - —
smaller lots, works lb. .41 - .48
Manganate, USP, dms., works lb. 2.10 - 2.25
Naphthenate, liq., 4% Ca, dms., frt. equald lb. .25¾- —
Nitrate, tech., bbls., works lb. .10 - .12
fertilizer grade, bgs., c.l., Los Angeles ton. 49.25 - —
Pantothenate, dextro, jars, 100 grams or more, frt. adjusted gram. .07½- —
Para-aminosalicylate, fib. dms., 1,000-lb. lots or more, frt. adjusted lb. 7.00 - —
smaller lots, same basis lb. 7.05 - 7.50
Phenolsulphonate, dms lb. .70 - —
Phosphate, dibasic, USP, bgs., c.l., 100 lbs. 7.10 - —
l.c.l. 100 lbs. 7.60 - 7.95
feed grade, bgs., c.l., works ton. 80.00 - —
l.c.l., bgs., works ton. 85.00 - —
monobasic, bgs., 10,000-lb. lots, works, frt. equald lb. .0625- —
smaller lots, same basis lb. .0675- —
tribasic, precip., NF, bgs., c.l., works 100 lbs. 7.10 - —
l.c.l., works 100 lbs. 7.45 - —

Calcium phytate, bgs., works lb. .28 - —
Resinate, precip., dms., frt. alld., works lb. .27¾- —
Silicate hydrated bgs., c.l., works, lb. .06 - —
l.c.l., works lb. .06½- —
Stearate, ctns., c.l. lb. .35 - —
ton lots lb. .36 - —
less ton lots lb. .37 - —
Sulphate (see Gypsum)
Calcium-strontium sulphide, phosphorescent steel pails, 100 lb. to 999 lb. lots, works lb. 2.60 - 3.50
fine particle size, same basis, works lb. 2.65 - 3.75
Calendula flowers, bls lb. .50 - .65
Calomel, USP powd. dms lb. 4.02 - 4.05
Camphene, 46° m.p., dms., incl., c.l., works lb. .1930- —
l.c.l., same basis lb. .1980- .2115
tanks, same basis lb. .1660- —
Chlorinated 67-69% (see Toxaphene).
Camphor monobromated, NF, dms., kgs lb. 3.00 - 3.12
natural, USP, powd. 100-lb lots, bbls. lb. .48 - .50
tablets, 1-oz., ½-oz., cs lb. .63 - .65
synthetic, tech., bbls., 10 bbls., 1,500-lb. lots or more, frt. adjusted lb. .55½- —
smaller lots lb. .56 - .66
USP, gran., powd., bbls., 2,000-lb. lots lb. .57 - —
1,000-lb. lots lb. .58 - —
smaller lots lb. .59 - —
tablets, tins, 2,000-lb. lots lb. .90 - —
1,000-lb. lots lb. .91 - —
smaller lots lb. .92 - —
Canada balsam (see Fir balsam).
Canella alba bark, bls lb. .25 - .33
Cantharides, Chinese, cs lb. 2.00 - 2.05
powd., bxs. lb. 2.25 - 2.30
Russian, bgs. lb. 4.00 - 4.05
powd., bxs. lb. 4.35 - 4.40

Capsicum (see Pepper, red).
Oleoresin, NF, from domestic pepper, dms lb. 4.25 - 5.75
from African pepper, dms. lb. 4.75 - 6.25
Caramel coloring, NF, bbls. gal. 1.05 - 1.20
Caraway seed, Dutch, bgs. lb. .09¼- .09½
Carbazole, 97%, bbls., ton lots, works lb. 1.25 - —
steel-dms., same basis lb. 1.20 - —
Carbinol, methylisobutyl, dms., c.l., dlvd lb. .15¼- —
l.c.l., same basis lb. .16 - —
tanks, same basis lb. .13½- —
Carbon bisulphide, 50-gal. dms., c.l., works, frt. alld competitive points lb. .0700- —
l.c.l., same basis lb. .0800- —
5-gal. dms., c.l., same basis lb. .0950- —
l.c.l., same basis lb. .1050- —
tankcars, same basis lb. .0490- —
Dioxide, industrial, wholesale, cyl lb. .08 - —
Tetrachloride, CP, dms., works lb. .1097- .1197
NF, chys lb. .17 - .18
tech., dms., c.l., E of Rockies, frt. alld lb. .0847- —
W of Rockies, f.o.b stock-points lb. .0697- —
l.c.l., E. of Rockies, frt. alld. lb. .1047- —
W of Rockies, f.o.b stock-points lb. .1107- —
tanks, E. of Rockies, frt. alld. lb. .0772- —
W of Rockies, f.o.b. stock-points lb. .0822- —
Carboxymethyl cellulose (see CMC).
Carbromal, NF, dms., 100-lb. lots, works lb. 4.00 - 4.25
smaller lots, works lb. 4.10 - 4.75
Cardamom fruit, bleached, cs. lb. 3.65 - 4.00
medium, cs. lb. 3.25 - 3.30
decorticated, Alleppey, cs. lb. 2.05 - —
Guatemalan, cs. lb. 2.05 - —
Mangalore type, cs. lb. 2.05 Nom.
green, Alleppey, bgs. lb. 1.50 - —
Ceylon, bgs. lb. 1.50 - —
seed (see Cardamom fruit decorticated).
Carmine, No. 40, NF, bulk, 100 lbs. or more, dlvd lb. 5.50 - —
smaller lots, dlvd lb. 5.65 - 6.15
Carotene, technical, 1,350,000 A units per gram, tins, works gm. .55 - —
in carrot oil, 5,000,000 to 8,000,000 A units, per lb., dms., works, million units. .18 - —
microcrystalline, in oil, 400,000 A units per gram, tins, works, million units. .33 - —
Carvol, bots. lb. 6.25 - 9.65
Cascara sagrada, bark, bulk lb. .35 - .37
Casein, dom., acid-precip, standard, bgs., 10,000-lb lots or more, ship't point lb. .28 - .32
premium bgs., 10,000-lb. lots or more, ship't point lb. .36½- .40
imported, Argentine, acid-precip., grd., 100-bg. lots or more, duty paid lb. .16 - .17½
Cashewnut shell liquid, treated, dms., c.l., Newark, N. J. lb. .22 - —
ton lots, same basis lb. .23 - —
dm. lots, same basis lb. .25 - —
Cassia, Batavia, cuttings, bls lb. .18½- .19
longstick lb. .21 - .22
shortstick, bls lb. .19 - .19½
China, Canton, Kwangsi rolls, select, cs lb. .40 - .41
broken, bls lb. .38 - .39
Henan, Yunnan, scraped, bls. lb. .28 Nom.
unscraped, bls lb. .27½ Nom.
Saigon, broken, bls lb. .51½- —
medium, bls lb. .54½- —
thin, bls lb. .58 Nom.
Cassia buds, bgs lb. 1.65 - 1.70
Fistula, baks lb. .25 - .30
Castor beans, bgs., f.o.b. Brazilian ports long ton. 170.00 - —
Oil (see Oil, castor).
Pomace, bgs., c.l., works ton. 37.25 - —
Castoreum, artificial, cns lb. 9.00 - 9.25
natural, cns lb. 7.00 -30.00
Catechol, CP, cryst., fib. dms., works lb. 2.17½- —
resublimed dms., works lb. 4.29½- —
Catnip leaves, southern, bls lb. .70 - .95
Celery seed, French, bgs lb. .36½- .38
Indian, bgs lb. .25½- .26
Celluloid scrap (see Pyroxylin scrap).
Cellulose acetate flake, ctns., dlvd, lb. .40 - .45
extrusion compounds, translucent, metallic pearls, special black, dms., c.l., same basis lb. .52 - —
t.c.l., same basis lb. .53 - .59
molding, composition, translucent, metallic pearls, special black, dms., c.f., frt. alld. lb. .48 - —
t.c.l., same basis lb. .49 - .55
reprocessed black, dms., l.c.l., same basis lb. .43 - .49
Acetate-butyrate, flake, 16% butyryl content, standard cartons, works lb. .64 - —
17% butyryl content, standard cartons, works lb. .54 - —
27% butyryl content, standard cartons, works lb. .54 - —
28% butyryl content, low viscosity, standard cartons, works lb. .68 - —
medium viscosity, same basis lb. .54 - —
50% butyryl content, standard cartons, works lb. .63 - —
molding composition, plain colors, pearls, transparents, special black, dms., l.c.l., frt. alld. lb. .64 - .71
reprocessed black, dms., l.c.l., same basis lb. .52 - .58
Triacetate, flake, ctns., works, frt. alld. on 100-lb. lots or more lb. .50 - —
Cerium hydrate, 74% CeO_2, fib. dms., 50-lb. lots or more lb. 1.44 - —
77% CeO_2, fib. dms., 50-lb-lots or more lb. 1.60 - —
Oxalate, NF, bbls., bgs., works lb. No prices.
Oxide, optical grade, bgs., 50-lb. lots or more, works lb. 1.95 - 1.96
smaller lots, works lb. 2.03 - 2.23
Chalk, precip., cosmetic, dentifrice, drugs, bgs., c.l., works lb. .0295- .038
l.c.l., ex whse lb. .0385- .05
paint, bgs., c.l., works ton. 40.00 - —
papermakers, bgs., c.l., works ton. 32.50 -40.00
rubber makers, bgs., c.l., works ton. 55.00 -60.00
Chamomile flowers, Hungarian style, cs lb. .85 - 1.00
Roman, cs. lb. .90 - 1.25
Charcoal, activated, NF, fib. dms., c.l., works lb. .23 - .32
5-ton lots, works lb. .26¼- .32¼
smaller lots, works lb. .27 - .30
Bone (see Black, bone).
Hardwood, briquets, bgs., c.l., works ton. 77.00 -86.00
granular, bgs., works ton. 77.00 - —
bulk, c.l., works ton. 70.40 - —
Pinewood, gran., powd., bgs., c.l., works, South ton. 43.50 - —
l.c.l., works, South ton. 43.50 -53.50
lump bgs., c.l., works, South ton. 40.00 - —
l.c.l., works, South ton. 50.00 -60.00
bulk, c.l., works, South ton. 33.50 - —

Red Diamond Dry Ice for INDUSTRY

26 producing plants across the nation to give you "next door service" wherever you are

Fresh dry ice—in any quantity—when you want it! You can be sure of this when you order from your nearby "Liquid" CO_2 producing plant.

In step with the ever-growing chemical industry, Liquid's company owned and operated plants have been established in strategic service spots throughout the nation.

Our engineers are ever abreast of developments in the chemical field . . . are always prepared to help you solve your particular CO_2 problem.

THE **LIQUID** CARBONIC CORPORATION
3100 South Kedzie Avenue, Chicago 23, Illinois

Liquid

Chestnut extract, 25% tannin, bbls., c.l., works lb. .0510- —
l.c.l., works lb. .0543- —
tanks, works lb. .0425- .0140
powd., 60% tannin, bgs., extra, c.l., works lb. .1092- —
l.c.l., works lb. .1165- —
Chloral, tech., 94% min., dms., c.l., works lb. .23 - —
l.c.l., works lb. .24 - —
tanks, works lb. .21 - —
Hydrate, USP, 40-lb. jars, 1,000-lb. lots lb. 1.30 - —
500-lb. lots lb. 1.33 - —
100-lb. lots or less lb. 1.35 - 1.40
Chloramine T, NF, bbls. works lb. .75 - 1.00
Chlordane, agricultural, dms., paus, c.l., frt. alld lb. .65 - —
l.c.l., frt. alld lb. .66 - .73
refined, dms., c.l., frt. alld lb. .75 - —
l.c.l., frt. alld lb. .76 - .83
Chlorinated paraffin, 42%, dms., c.l., frt. alld. lb. .14 - —
l.c.l. lb. .14¾- —
70%, dms., c.l., same basis lb. .18 - —
l.c.l., same basis lb. .19 - —
Rubber, 5, 10, 20 cps., ctns., c.l., works lb. .55 - —
l.c.l., works lb. .57 - —
125, 1,000 cps., ctns., c.l., works lb. .60 - —
l.c.l., works lb. .61 - .62
Chlorine, liquid, cyls., c.l. lb. .08¾- —
l.c.l., N. Y. stock points lb. .10¼- —
tanks, single units, works, frt. equald. 100 lbs. 2.70 - —
W. of Rockies 100 lbs. 2.82½- —
multiple units, 3 cars, works, frt.equald. 100 lbs. 3.20 - —
2 cars, same basis 100 lbs. 3.80 - —
1 car, same basis 100 lbs. 4.40 - —
Chloroform, tech., dms., c.l., divd. E. lb. .18 - .182
l.c.l., same basis lb. .192 - .20
tanks, same basis lb. .17 - .171
USP, dms lb. .30 - .35
Chloro(4)-2-Toluidine, bbls. lb. 1.38 - —
Chlorophyll oil, soluble, 4%, not fixed, tins, pails, works lb. 4.25 - —
copper fixed, 6½%, tins, pails, works lb. 4.25 - —
sodium-copper, dms., pails, aqueous sol., 4%, works lb. 3.75 - —
8%, pails, dms., works lb. 4.00 - 4.80
14%, dms., works lb. 8.90 - —
concentrated, dom., 50%, dms., works, basis 100% lb. 56.50 - 60.00
75%, dms., works, basis 100% lb. 60.00 - —
90%-100%, dms., works, basis 100% lb. 60.00 - 67.00
imported, 60%, dms., basis 100% lb. 60.00 - —
75%, dms, basis 100% lb 60.00 - —
90%, dms., basis 100% lb. 60.00 - —
Chloropicrin, com'l, bots lb. 1.50 - —
cyls., 180 lbs., frt. alld lb. .95 - —
100 lbs., same basis lb. .97 - —
25 lbs., same basis lb. 1.22 - —
Cholesterol, USP, fib. dms., 100-lb. lots lb. 6.85 - —
Choline bitartrate, fib. dms., frt. adjusted lb. 1.70 - 1.95
Chloride, fib. dms., frt., adjusted. lb. 1.70 - 1.95
Dihydrogen citrate, fib. dms., frt., adjusted lb. 1.70 - 1.95
Chromium acetate, powd. 12% Cr., bbls., works lb. No stocks.
solut., 7½% bbls. works lb. .08½ —
cbys. works lb. .10¼ —
8½%, bbls. works lb. .09 - —
cbys. works lb. .10¾- —
Fluoride, bbls. works lb. .44½- —
Green (see Green, chrome).
Oxide (see Green, chromium oxide).
Oleate, solid, bbls lb. .49 - —
Trioxide, NF, bots lb. .82 - .89
Yellow, (see Yellow, chrome).
Chrysarobin, USP, bots. lb. 6.50 - 8.00
Cinchona bark, NF, red, broken, bgs lb. .28 - .30
yellow, broken, bgs lb. .28 - .30
Cinchonidine, cryst., cns 100 oz.-lots oz. .71 - .72
Sulphate, cns., 100 oz.-lots oz. .37 - .40½
Cinchonine, cryst., cns., 100 oz.-lots. oz. .52 - .57
Sulphate, NF, cns., 100 oz.-lots oz. .27 - .30½
Cinchophen, NF, heavy density, dms., frt. adjusted lb. 3.70 - 4.05
standard density, dms., same basis lb. 3.50 - 3.85
Cinchophen-sodium, dms., frt. adjusted lb. 4.50 - 4.85
Cinnamic alcohol (see Alcohol cinnamic)
Aldehyde, NF, cns., dms lb. 1.00 - 1.30
Cinnamon, Ceylon, No. 2, bls. lb. .30 - .31
"0000," bgs. lb. .39 - .40
Citral, bots., cns. lb. 3.20 - 3.75
Citronellal, bots., dms. lb. 1.50 - 1.85
Citronellol bots., dms. lb. 4.75 - 2.20
Civet, artificial, bots lb. 13.75 - 15.00
natural, bots oz. 3.50 - 7.00
Clay, bali, dom., crushed, bulk, Tennessee ton. 10.00 - 12.00
airfloated, bgs., c.l., Tennessee. ton. 19.50 - —
purified, bgs., c.l., Tennessee. ton. 20.50 - —
imported, lump, bulk, Atlantic port long ton. 27.00 - 30.00
airfloated, bgs., c.l., Atlantic port, long ton. 43.00 - 45.00
pulverized, bgs., l.c.l., all ports ton. 55.00 - —
97%, 200 mesh, bgs., c.l., Georgia ton. 54.00 - 56.00
China, dom., dry-grd., air-float, 99%, 300 mesh bgs., c.l., works ton. 11.50 - 14.50
l.c.l., works ton. 35.30 - —
bulk, c.l., works ton. 8.50 - 11.50
200 mesh, bgs., c.l., works ton. 13.50 - 17.00
imported, white, lump, bulk, c.l., ex dock, Phila., Portland, Me. gross ton. 20.00 - 40.00
powd., bgs., c.l., ex dock. net ton. 50.00 - —
l.c.l., ex whse. net ton. 60.00 - 65.00
Clove, Madagascar, bls. lb. 1.62 Nom.
Zanzibar, bls. lb. 1.57 - 1.58
Clover tops, red, bgs. lb. .45 - .50
CMC, purified, high vis., (see Gum, cellulose).
standard low vis., bgs., 23,000 lbs. or over, works, frt. alld. lb. .60 - —
smaller lots, same basis lb. .62 - —
medium vis., bgs., 23,000 lbs. or over, works, frt. alld lb. .57 - —
smaller lots, same basis lb. .59 - —
technical, high vis., 88% purity, bgs., 20,000 lbs. or more, dlvd. E., 100% basis lb. .56 - —
2,000 to 20,000 lbs., dlvd. E. lb. .58 - —
less than 2,000 lbs., dlvd. E. lb. .62 - —
low vis., 80% purity, bgs., or fib. dms., 23,000 lbs. dlvd. E., basis 100% lb. .41 - —
less than 23,000 lbs. dlvd. E., basis 100% lb. .43 - —
62% purity, bgs., or fib. dms., c.l., dlvd. E., basis 100% lb. .41 - —
l.c.l., dlvd. E., basis 100% lb. .43 - —
58% purity, bgs., c.l., dlvd. E. basis net weight lb. .34 - —
l.c.l., dlvd. E. lb. .36 - —

CMC, tech., low vis., 47½% purity, c.l., dlvd., E., basis 100%. lb. .41 - —
l.c.l., dlvd. E. lb. .43 - —
36½% purity, bgs., c.l., dlvd. E., basis net weight lb. .13½- —
l.c.l. dlvd E lb 20 —
Prices for technical grades of CMC West of the Rocky Mountains are 1c. per pound less than delivered E. prices.
Coaltar, crude, resale dms., c.l., ex-whse. gal. .275 - .3025
l.c.l., ex-whse. gal. .285 - .3135
tanks, ex-whse. gal. .154 - .165
refined, resale, dms., c.l., ex-whse. gal. .2850- .3135
l.c.l., ex-whse. gal. .2950- .3245
tanks, ex-whse. gal. .1650- .1760
Cobalt acetate, 23.7% bbls., dlvd lb. 1.14¾- —
Carbonate, 48%, powd., bgs., dlvd lb. 1.92¼- —
Chloride, 24.2% Co., kgs., dlvd., lb. 1.10½- —
Hydrate, 60-61% Co., bbls., dlvd. lb. 2.52 - —
Linoleate, fused, 8½% Co., dms. lb. .64½- —
liquid, 6% Co. dms lb. .53¼- —
Metal, 97.99%, kgs., ex-whses lb. 2.40 - —
Naphthenate, liquid, 6% Co., dms., lb. .42¾- —
Nitrate, 20.1% Co., bbls., dlvd lb. .99¼- —
Oxide, black, 70-71% Co., kgs lb. 1.76 - —
Phosphate, powdered, 32.1% Co., kgs., dlvd lb. 1.57¾- —
Resinate, fused, 3% Co., dms lb. .27 - —
Sulphate, cryst., 21% Co., dms., dlvd lb. .81¾- —
monohydrated, 33% Co., dms. dlvd lb. 1.28½- —
Cocaine, USP, cns., 100-oz. lots oz. 15.00 - —
Hydrochloride, cns. 100-oz. lots oz. 11.75 - —
Cochineal, USP gray, bgs. lb. .68 - .90
Cocillana bark, bgs lb. .16 - .17
Cocoa butter, bgs lb. .81 - —
Codeine, NF, cns., 100-oz. lots oz. 13.25 - —
Hydrochloride, cns., 100-oz. lots oz. 11.75 - —
Phosphate, USP, cns., 100-oz. lots. oz. 10.25 - —
Sulphate, USP, cns., 100-oz. lots oz. 10.75 - —
Codliver oil (see Oil, codliver).
Cohosh root, black, bls. lb. .22 - .25
Blue, bls. lb. .19 - .24
Colchicine, USP, bots., cns. oz. 65.00 -70.00
Colchicum root, bls. lb. .45 - .60
Seed, bgs lb. .80 - 1.10
Collodion, USP, dms. lb. .32½- —
flexible, USP, dms. lb. .34 - —
Colocynth, pulp, bls. lb. .25 - .30
Colombo root, bls., to arrive lb. .20 Nom.
Coltsfoot leaves, ozs lb. .25 - .30
Condurango bark, bgs lb. .17 - .18
Copaiba, balsam, cns., dms lb. .85 - 1.75
Copper acetate, bbls., c.l. works lb. .34¾- —
l.c.l., works lb. .35¾- —
Carbonate 55%, bgs., works lb. .22 - .23½
Chloride, anhyd., bbls., works lb. .41 - —
crystals, bbls., works lb. .27½- —
Cyanide, tech., bbls., 1,000-lb. lots or more lb. .613 - —
less than 1,000-lb. lots lb. .633 - —
Gluconate cns., dms lb. 3.00 - 3.24
Hydrate, dms., frt. alld. E. Miss. lb. .36 - .36½
Metal, electrolytic lb. .27½- .33
Naphthenate, liquid, 8% Cu, dms., frt. alld lb. .22¾- —
Nitrate, tech., cryst., bbls., works. lb. .25¼- —
Oleate, solid, 9% Cu, dms., works. lb. .45 - —
Oxide, black, bbls., works lb. .39 - .40
red, com'l, bbls., c.l., works lb. .43 - .45¼
l.c.l., works lb. .44 - .45½
Copper oxychloride, bls., frt. alld. lb. .36¼- .46¾
Quinolinolate, fib. dms. lb. 4.25 - 4.50
Resinate, precip., dms., frt. alld. lb. .27¼- —
Stearate, bgs., 5 ton to c.l., dlvd. lb. .37½- —
ton lots, dlvd lb. .38½- —
less ton lots, dlvd lb. .39½- —
Sulphate, cryst., 99%, bgs., c.l., works 100 lbs. 10.85 -11.00
l.c.l. 100 lbs. 11.85 -12.00
CP, gran., bbls., works lb. .1765- .2500
monohydrated, 35%, dms., c.l., works 100 lbs. 14.95 -15.50
tribasic, dealers, bgs., c.l., works, frt. alld. 100 lbs. 26.90 - —
l.c.l., works 100 lbs. 28.40 - —
USP, gran., cryst., dms lb. .1765- .2500
Undecylenate, dms. lb. 2.90 - 3.00
Copperas, gran., bgs., c.l., works ton. 28.50 - —
l.c.l., dlvd, Metro area 100 lbs. 3.00 - —
bbls., c.l., works ton. 34.00 - —
bulk c.l., works ton. 21.00 - —
Copra, Atlantic, Gulf ports, c.i.f. ton. 265.00 - —
Pacific ports, c.i.f. ton. 260.00 - —
Coriander seed, Argentine, bgs. lb. .13 - .13½
Czech, bgs lb. .07 - .07½
Moroccan, bgs. lb. .06 - .06½
Roumanian, bgs. lb. .08 Nom.
Corn sugar tanners, chipped, paper bgs., c.l., 60,000 lbs. min. 100 lbs. 7.31 - —
Syrup, 42°, dms., c.l. 100 lbs. 7.32 - —
l.c.l. 100 lbs. 7.47 - —
Cornsilk, bls. lb. .14 - .15

from start to finish...

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Secure the degree of flatting you want in your paints, lacquers or varnishes with one of these 3 Witco Aluminum Stearates:

WITCO ALUMINUM STEARATE	FLATTING EFFICIENCY	PROPERTIES
#132	Moderate flatting	High free fat, tri type soap with minimum gelling properties.
#16	Intermediate flatting	Fairly high free fat...will not gell too readily. Recommended for maximum wash resistance in dry films.
#18	Maximum flatting	Low free fat. This is the most efficient flatting agent of all Witco's aluminum stearates.

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Asphalt
Asphalt Specialties
Automobile Undercoatings
Rust Preventives
Sound Deadeners
Vibration Dampeners
Calcium Resinate
Carbon Blacks
Copper Hydroxy Naphthenate
Copper Linoleate
Copper Oleate
Copper Naphthenate
Driers
Naphthenic Acid Driers
Lead-Cobalt-Calcium
Driers—*Continued*
Manganese-Zinc-Iron
Octoic Acid Driers
Lead-Cobalt-Zinc
Witall* (Tall Oil) Driers
Lead-Cobalt-Manganese-Iron
Esters
Butyl Oleate
Butyl Stearate
Dibutyl Adipate
Dibutyl Phthalate
Methylcyclohexyl Stearate
Lead Linoleate
Lead Oleate
Metallic Stearates
Aluminum Lithium
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Witco Gelling Agents
Witcotes®

*Trade-Mark

WITCO CHEMICAL COMPANY

260 Madison Avenue, New York 16, N. Y.

Los Angeles • Boston • Chicago • Houston • Cleveland
San Francisco • Akron • London and Manchester, England

Corrosive Sublimate, NF—Di-iso-octyl Phthalate

Corrosive sublimate, NF, cryst., dms., 50-lb. lots or more lb. 3.68 • —
gran. powd., dms., 50-lb. lots or more lb. 3.53 • —
Cottonroot bark, bls lb. .24 • .25
Cottonseed hull ash, 32-36% potash, bgs., dlvd., unit-ton. 1.50 • —
Meal, 41% protein, sacked, Memphis ton.75.00 Nom.
Coumarin, cryst., NF, cns. lb. 2.94 • 3.15
powd., cans lb. 3.20 • 3.25
Cramp bark, NF, bls lb. .80 • .90
Cranesbill root, bls lb. .40 • .41
Cream of tartar, NF, dom., gran. or powd., dms., c.l. lb. .32 • —
bbls., 5,000 lbs. one shipment lb. .32¼- —
smaller lots, bbls., kgs. lb. .33 • .36
imported, kgs lb. .25 • .26
Creosote carbonate, NF, bots., cbys. lb. 2.80 • 2.90
Coaltar, crude, tanks, works, frt. adjusted gal. .22 • —
solution, 80%, tanks, works, gal. .2068- —
refined, dms., c.l., works gal. .3850- —
l.c.l., same basis gal. .4510- —
tanks, same basis gal. .2970- —
Wood, beechwood, cbys., dms. lb. 1.35 • 1.40
hardwood, bots., cbys lb. 1.05 • 1.10
pinewood, dms gal. .31 • .32
Cresol, tech., 50% below 204°C., dry above 207°C., wide distillation range, non-ret. dms., c.l., frt equald lb. .133 • —
l.c.l., same basis lb. .136 • —
ret. dms., c.l., same basis lb. .1325- —
l.c.l., same basis lb. .1375- —
tanks, same basis lb. .120 • .1225
Cresol, USP, non-ret., dms., c.l., same basis lb. .143 • —
l.c.l., same basis lb. .146 • —
ret. dms., c.l., same basis lb. .140 • —
l.c.l., same basis lb. .145 • —
tanks, same basis lb. .130 • —
Crotonaldehyde, 91-93%, l.c.l., works lb. .24¼- .25
Cryolite, nat., industrial, bgs., c.l., works 100 lbs. 10.50 • —
l.c.l., works 100 lbs. 11.25 -11.50
Insecticide, dealers, bgs., c.l., dlvd. 100 lbs. 15.25 • —
l.c.l., dlvd. 100 lbs. 16.25 • —
Cube root, powd., 5% rotenone, bgs., works lb. .22 • —
Cubeb berries, XX, NF, bgs. lb. .50 • .51
powd., cs. lb. .58 • .59
Culvers root, bbls lb. .60 • .61
Cumene, dms., c.l., works lb. .12 • —
l.c.l., works lb. .14 • —
tanks, works lb. .11 • —
Cumin seed, Iranian, bgs. lb. .14½- .15
Moroccan, bgs. lb. .22 Nom.
Syrian, bgs. lb. .17 Nom.
Turkish, bgs. lb. .14¼- .14½
Cutch, extract, 55% tannin, bgs., ex dock, duty extra lb. .08¼- —
Cyanamide, fertilizer mixing grades, 20.6% N, gran., bgs., Niagara Falls, Ont., contract ton.62.50 • —
pulv., 21% N, bgs., works unit-ton. 2.90 • —
Cyclohexane, tech., 95%, dms., c.l., dlvd. lb. .11 • —
l.c.l., dlvd. lb. .11¾- —
tanks, dlvd. lb. .09¼- —
Cyclohexanol, tech., dms., c.l., works, frt. alld., E lb. .24¾- .37¾
l.c.l., works, same basis lb. .25¼- .38¼
tanks, works, same basis lb. .23¼- .36¼
Cyclohexanone, tech., dms., c.l lb. .26½- .30
l.c.l., works lb. .27 • .31
tanks, works lb. .25 • .29
Cyclohexylamine, dms., c.l., works, lb. .41½- —
l.c.l., works lb. .42½- —
tanks, works lb. .40 • —
Cyclopropane CP 2 lb. cycls. works, cyl. 48.00 • —
6 oz. cycls. works cyl. 12.00 • —
USP, hospitals, cyls., 40 gal. lots, gal. .38 • —
100-gal. lots gal. .37 • —
200-gal. lots gal. .36 • —

D

2, 4-D, bbls., c.l., works, frt. equald, lb. .51 • —
l.c.l., same basis lb. .56 • .63
Isopropyl ester, dms., c.l., works, lb. .55 • —
l.c.l., works lb. .60 • .67
Damiana leaves, bls lb. .28 • .30
Dandelion root, bls lb. .40 • .45
DDD, tech., fine grd., fib. dms., c.l., works lb. .50 • —
l.c.l., works lb. .51 • —
DDT, fiber dms., c.l., works, frt. equald lb. .23 • .26
smaller lots, same basis lb. .24 • .29
Decanol, normal, tech., dms., c.l., dlvd lb. .35 • —
l.c.l., dlvd lb. .37 • —
tanks, dlvd. lb. .32½- —
Deertongue leaves, bls lb. .42 • .43
Defluorinated phosphate, 13% P, paper bgs., works ton.49.25 • —
18½% P, paper bgs., works ton.62.75 -63.75
Rock, 14½% P, paper bgs., works ton.50.00 • —
Degras, common, bbls lb. .11 • .12
crude, centrifugal, bbls lb. .18 • .20
neutral, less 2% ffa, bbls lb. .20½- —
over 2% ffa., bbls lb. .30 • —
Derris root, 5% rotenone powd., bbls. lb. .32 Nom.
Desoxyephedrine hydrochloride, dextro, bots lb. 25.00 • —
dextro-laevo, bots. lb. 6.50 • —
Dextrin, corn, gum, paper bgs., c.l., N.Y. 100 lbs. 8.95 • —
l.c.l. 100 lbs. 9.10 • —
canary paper bgs, c.l. 100 lbs. 8.69 • —
l.c.l. 100 lbs. 8.84 • —
dark, paper bgs., c.l. 100 lbs. 8.79 • —
l.c.l. 100 lbs. 8.94 • —
white, paper bgs., c.l. 100 lbs. 8.53 • —
l.c.l. 100 lbs. 8.68 • —
Corn dextrin in cotton bgs. 25c. per 100 lbs. higher.
Potato, bgs. lb. .10½- .11
Dextrose, USP, dms. lb. .17¾- —
Diacetone (see Alcohol, diacetone)
Diacetyl, flavor grade, bots. lb. 4.50 • 5.50
laboratory grade, bots 100 grams. 4.50 • —
tech., bots., works lb. 3.00 • —
Diamyl ether (see Ether, amyl).
Dianisidin dms lb. 1.90 • —
Diatomaceous earth, dom., bgs., c.l., Atlantic coast ton.52.00 -55.00
California ton.42.00 -45.00
l.c.l., ex whse ton.85.00 -90.00
purified, bgs., c.l., Atlantic coast ton.65.00 —
California ton.53.00 —
l.c.l., ex whse ton.95.00 -100.00
Atlantic coast ton.95.00 -100.00
Imported, Mexican, white, bgs., c.l., Atlantic coast lb. .03 • —
l.c.l., Atlantic coast lb. .06 • —
Dibenzyl sebacate, CP, dms., c.l., works lb. .92 • —
l.c.l., works lb. .93¾- —
tanks, works lb. .91 • —
Dibutyl phthalate, dms., c.l., dlvd., E lb. .35¾- —
l.c.l., same basis lb. .36¾- —
tanks, same basis lb. .34 • .34½
Sebacate, dms., c.l., works lb. .81¾- .82¾
l.c.l., works lb. .82¼- .83¾
tanks, works lb. .80 • .81
Tartarate, dms., works, frt. alld lb. .71 • —
Dibutylamine dms, c.l., dlvd lb. .54¾- —
l.c.l., same basis lb. .55¾- —
tanks, same basis lb. .53 • —
Dicapryl phthalate, dms., c.l., dlvd. lb. .38¾- .39¾
l.c.l., dlvd lb. .37 • .39¾
tanks, dlvd lb. .35 • .37
Sebacate, dms., c.l., works lb. .68¾- —
l.c.l., works lb. .69¾- —
tanks, works lb. .66½- —
Dichloroaniline, dms., works lb. .75 • .83
Dichlorodiphenyltrichloroethane (see DDT).
Dichloroethyl ether (see Ether, dichloroethyl).
Dichloropentanes, dms., c.l., works, lb. .03 • —
l.c.l., works lb. .05¾- —
tanks, works lb. .04¼- —
Dicyclohexylamine, dms., c.l., works, lb. .48 • —
l.c.l., works lb. .46¾- —
tanks, works lb. .44¼- —
Dicyclohexylphthalate, fib dms., c.l., works lb. .60 • —
l.c.l., same basis lb. .61 • —
Dieldrin, dms., frt. alld lb. 2.00 • —
l.c.l., frt. alld lb. 2.40 • —
Diethanolamine, dms., c.l., dlvd. E, lb. .29¼- —
l.c.l., same basis lb. .30¼- —
tanks, same basis lb. .27½- —
Diethyl carbonate, dms., c.l., frt. alld lb. .46¾- —
l.c.l., same basis lb. .47¾- —
tanks, same basis lb. .45 • —
Diethyl maleate, dms., c.l., dlvd. lb. .50 • —
l.c.l., dlvd lb. .48¼- —
tanks, dlvd lb. .43½- —
Oxalate, dms., c.l., frt. alld lb. .41¾- —
l.c.l., same basis lb. .42¾- —
tanks, same basis lb. .40 • —
Phthalate, dms., c.l., dlvd lb. .26¾- —
l.c.l., dlvd. lb. .27¾- —
tanks, dlvd. lb. .25 • —
Sulphate, dms., c.l., works lb. .18¾- —
l.c.l., works lb. .19¼- —
tanks, works lb. .17 • —
Diethylamine, dms., c.l., dlvd. E lb. .50¼- —
l.c.l., same basis lb. .51¼- —
tanks, same basis lb. .48½- —
Diethylanilin dms lb. .48 —
Di-2-ethylhexyl adipate (see Dioctyl adipate).
Di-2-ethylhexyl phthalate (see Dioctyl phthalate).
Diethyleneglycol, dms., c.l., dlvd. E, lb. .20¼- —
l.c.l., same basis lb. .21¼- —
tanks, same basis lb. .18½- —
Boribórate, dms., l.c.l lb. .20½- —
Diethylether, dms., c.l., works lb. .46½- —
l.c.l., works lb. .47 • —
Monobutylether, dms., c.l., works, lb. .28¾- —
l.c.l., works lb. .29¼- —
tanks, works lb. .27 • —
Monobutylether acetate, dms., c.l., works lb. .30 • —
l.c.l., works lb. .30½- —
Monoethylether, dms., c.l., dlvd. lb. .20¾- —
l.c.l., dlvd lb. .21½- —
tanks, dlvd lb. .19½- —
Monoethylether acetate, dms., c.l., works lb. .26¾- —
l.c.l., works lb. .27¼- —
Monomethylether, dms., c.l., works lb. .24¾- —
l.c.l., works lb. .23¼- —
tanks, works lb. .23½- —
Diethylenetriamine dms., c.l., dlvd E, lb. .43 • —
l.c.l., same basis lb. .44 • —
tanks, same basis lb. .41½- —
Diethylethanolamine, dms., c.l., dlvd lb. .67½- —
l.c.l., same basis lb. .68½- —
tanks, same basis lb. .65¾- —
Diethylstilbestrol, USP, bots., 10-kilo lots, kilo. 115.60 -150.00
1 kilo lot kilo. 135.00 -150.00
Digitalis leaves, USP, dom., dms. lb. 1.05 • 1.10
Digitoxin, USP, bots gram. 6.50 • 8.00
Diglycol laurate, dms lb. .30½- .34
Oleate, dms lb. .28½- .29¼
Stearate, dms lb. .25 • .26½
Dihexyl sebacate, dms., c.l., works, lb. .76¼- —
l.c.l., works lb. .77¼- —
tanks, works lb. .74¾- —
Dihydrazine sulphate, dms., works lb. 1.10 • 1.25
Dihydrostreptomycin, either hydrochloride or sulphate, bulk, gram. .17 • —
Dihydroxydichlorodiphenylmethane, pure, dms lb. 2.80 • 3.00
tech., dms. lb. 1.04 • 1.14
Di-isobutyl ketone, dms., c.l., dlvd. lb. .15¼- —
l.c.l., dlvd lb. .16¼- —
tanks, dlvd lb. .13½- —
Phthalate, dms., c.l., dlvd. E lb. .34¾- —
l.c.l. dlvd. E lb. .35¾- —
tanks, dlvd., E lb. .33 • —
Di-isobutylene, dms., c.l., works lb. .09¼- —
l.c.l., works lb. .10 • —
tanks, works lb. .07¼- —
Di-iso-octyl phthalate, dms., c.l., dlvd lb. .38¾- —
l.c.l., same basis lb. .39¾- —
tanks, same basis lb. .37 • —

Resin Manufacturers...

Produce more with your present equipment!

use Celanese*

PARAFORMALDEHYDE

- 30% larger batches—paraformaldehyde eliminates water bulk.
- ⅓ shorter cycle time—reflux and dehydration steps can be cut by hours.
- greater yields—lower formaldehyde-to-phenol ratio (using paraformaldehyde) produces higher resin yields.
- new low price makes Celanese Paraformaldehyde competitive with formalin. New production units assure large volume supply.

Ask your Celanese representative to show you how you can shorten processing time, cut material, equipment and labor costs, and increase resin production with your present equipment.

Celanese Resin Application Laboratory will be glad to assist you in making up and testing trial formulations using Celanese Paraformaldehyde as a replacement for formalin. Write for complete data in Technical Bulletin N-30, to:
Celanese Corporation of America, Chemical Division, Dept. 656-C, 180 Madison Avenue, New York 16, N. Y.

COST AND PRODUCTION COMPARISON†
(for a hard, grindable synthetic phenolic resin)

Typical Feed operation	Case 1 Formalin	Case 2 Paraformaldehyde
No. of 1000 gal. kettles	1	1
Days per week	6	6
Shifts per day	3	3
Batches per day	2	3
Time/batch hrs.	12	8
Weekly costs $	12,480	22,464
Weekly Prod. lbs./per kettle	48,000	93,600
Unit Cost ¢/lb. of resin	26.0	24.13

†In manufacture of oil soluble substituted phenolic resins, the savings can be even greater.

IF YOU PLAN ADDITIONAL INSTALLATION, you can materially reduce your capital investment by using Celanese Paraformaldehyde. No need for heated storage tanks; same output from smaller kettles; less storage space. Lower steam, electricity and cooling water costs.

Celanese® CHEMICALS

*Reg. U. S. Pat. Off.

Di-isopropylamine, dms., c.l., divd. E. of Rockies lb. .49¾- —
t.c.l., same basis lb. .50¾- —
tanks, same basis lb. .48 - —
Dillseed, dewhiskered, bgs. lb. .13 - —
natural, bgs. lb. .11 - .11½
Dimethyl anthranilate, cns lb. 5.50 - 5.90
Chloroacetal, dms., c.l., works lb. .53 - —
t.c.l., works lb. .55 - —
tanks, works lb. .51 - —
Hydroquinone, dms. lb. 2.25 - 2.75
Phthalate, dms., c.l., divd. lb. .29¼- —
t.c.l., divd. lb. .30¼- —
tanks, divd. lb. .27½- —
Sebacate, dms., c.l., works lb. 1.31¾- —
t.c.l., works lb. 1.32¾- —
tanks, works lb. 1.30 - —
Sulphate, 55-gal. ret. dms., c.l., works lb. .15 - —
t.c.l., works lb. .16 - —
10-gal. ret dms., works lb. .16½- —
Dimethylamine, 25-40%, dms., c.l., works, basis 100% lb. .37 - .38
t.c.l., works, basis 100% lb. .37½- .38¼
tanks, works, basis 100% lb. .33 - —
Dimethylanilin, dms., c.l., frt. alld. lb. .26 - —
t.c.l., frt. alld. lb. .27 - —
tanks, frt. allo. lb. .25 - —
Dimethylethanolamine, anhydrous, dms., c.l., divd lb. 1.43 - —
t.c.l., divd lb. 1.45 - —
tanks, divd lb. 1.40 - —
70%, dms., c.l., divd., basis 100%. lb. .54 - —
t.c.l., divd. lb. .55 - —
tanks, divd lb. .52¼- —
Dimethylformamide, dms., works lb. .37 - —
tanks, works lb. .34 - —
Dinitroanilin dms., frt. equaid lb. .57 - —
Dinitrobenzene, crude, dms lb. .20 - —
purified, dms. lb. .22 - —
Dinitrochlorobenzene, dms., c.l., frt. alld. E lb. .15¼- —
t.c.l., frt. alld. E lb. .15¾- —
tanks, frt. alld. E lb. .15 - —
Dinitrophenol, obls lb. .34 - —
Dinitrotoluene oily, dms. lb. .10 - —
refined, dms. lb. .21 - —
Dioctyl adipate, dms., c.l., works lb. .44¾- —
t.c.l. works lb. .45¾- —
tanks, works lb. .43 - —
Phthalate dms., c.l., frt. alld lb. .38¾- .41¾
t.c.l. frt. alld lb. .39¾- .42¾
tanks, frt. alld lb. .37 - .40
Diorthotolylguanidin, dms., ton lots, divd lb. .54 - —
smaller lots, divd lb. .55 - —
Dioxane, dms., c.l., works lb. .28¾- —
t.c.l., same basis lb. .29¼- —
tanks, same basis lb. .27 - —
Dip oil (see tar acid oil).
Dipentaerythritol, bgs., c.l., works lb. .34 - —
t.c.l., works lb. .37 - —
Dipentene, dest-dist., dms., extra, c.l., works gal. .49 - —
t.c.l., works gal. .50 - —
whse. gal. .68 - —
steam-dist., dms., c.l., works, South gal. .60 - —
t.c.l., works, South gal. .69 - —
divd, N. Y. lb. .83 - —
Diphenyl, bbls, c.l., works lb. .15 - —
t.c.l., works lb. .16 - —
Diphenyl in bags ¼c. lower.
Oxide, perfume grade, cns. lb. .54 - .61
Phthalate, dms., c.l., works lb. .51¾- —
t.c.l., same basis lb. .53¾- —
Diphenylamine, refined, gran., bbls., c.l., works lb. .28 - —
t.c.l., works lb. .30 - —
tanks, works lb. .25 - —
tech, tanks, works lb. .24 - —
Diphenylguanidin, dms., ton lots lb. .44½- —
smaller lots lb. .45½- —
Diphenylhydantoin-sodium, USP, dms. lb. 5.30 - 5.60
Dipropyleneglycol, dms., c.l., frt. alld lb. .16¾- .17
t.c.l., same basis lb. .17¾- .18
tanks, same basis lb. .15 - —
Methylether, dms., c.l., divd. E lb. .20¾- —
t.c.l., same basis lb. .21¾- —
tanks, same basis lb. .19¼- —
Di-secondary-amylphenol, dms., c.l., works lb. .30¼- —
t.c.l., works lb. .33¼- —
tanks, works lb. .28¼- —
Di-tertiary-amylphenol, dms., c.l., works lb. .30¼- —
t.c.l., works lb. .33¼- —
tanks, works lb. .28¼- —
Di-tertiary-butylmetacresol, dms., c.l., works lb. .31 - —
t.c.l., works lb. .32 - —
tanks, works lb. .30 - —
Di-tertiary butylparacresol, dms., c.l., works lb. .91 - —
t.c.l., works lb. .95 - —
Divi-divi, 45% tannin bgs., bls., c.l., U.S. ports, exdock ton. 70.00 - 72.00
Divinylbenzene 20-25%, dms., c.l., works lb. .20 - —
t.c.l., works lb. .21 - —
tanks, works lb. .19 - —
40-50%, basis 100%, dms., c.l., works lb. 1.00 - —
t.c.l., works lb. 1.15 - —
Dodecylbenzene, dms., c.l., frt. equald lb. .14½- —
t.c.l., same basis lb. .15½- —
tanks, same basis lb. .12½- —
Doggrass root, dom., cut, bls. lb. .26 - .28
imp., cut, bls. lb. .28 - .30
Dogwood bark, Jamaica, bls. lb. .11 - .13
Dragon's blood, mass, cs. lb. 1.25 - 1.30
reeds, cs. lb. 1.40 - 1.45
Dyes, coaltar, certified colors for food drugs and cosmetics, 5-lb. and 1-lb. lots divd:—
Blue, FD&C, No. 1, cns lb. 17.00 - 17.60
No. 2, cns lb. 17.00 - 17.60
Green, FD&C, No. 1, cns lb. 17.00 - 17.60
No. 2, cns lb. 22.20 - 22.85
No. 3, cns lb. 35.25 - 35.90
Orange, FD&C, No. 1, cns lb. 3.65 - 3.75
No. 2, cns lb. 4.65 - 4.75
Red, FD&C, No. 2, cns lb. 7.55 - 7.85
No. 2, cns lb. 4.00 - 4.10
No. 3, cns lb. 22.20 - 22.85
No. 4, cns lb. 7.20 - 7.50
No. 32, cns lb. 5.30 - 5.40
Violet, FD&C, No. 1, cns lb. 17.00 - 17.60
Yellow, FD&C, No. 1, cns lb. 10.50 - 11.03
No. 3, cns lb. 3.30 - 3.40
No. 4, cns lb. 3.30 - 3.40
No. 5, cns lb. 4.00 - 4.10
No. 6, cns lb 4.00 - 4.10
Dyes, coaltar, certified colors for drugs and cosmetics, 1-lb. lots, works, 25-50 lb. lots, divd.:—
Black, D&C, No. 1, cns lb. 10.95 - —
Blue, D&C, No. 9, cns lb. 16.10 - —
Brown, D&C, No. 1, cns lb. 16.10 - —
Green, D&C, No. 5, cns lb. 16.10 - —
No. 6, cns lb. 16.10 - —
No. 7 cns lb. 14.80 - —
Orange, D&C, No. 3, cns lb. 10.95 - —
No. 4, cns lb. 20.05 - —
No. 5, cns lb. 5.70 - —
No. 10, cns lb. 20.70 - —
Red, D&C, No. 6, cns lb. 2.85 - —
No. 9, cns lb. 2.85 - —
No. 10, cns lb. 2.30 - —
No. 11, cns lb. 1.85 - —
No. 12, cns lb. 2.65 - —
No. 17, cns lb. 10.95 - —
No. 18, cns lb. 24.00 - —
No. 19, cns lb. 15.45 - —
No. 21, cns lb. 3.60 - —
No. 22, cns lb. 10.95 - —
No. 28, cns lb. 24.65 - —
No. 33, cns lb. 17.45 - —

Dyes, coaltar, certified colors for drugs and cosmetics, 1-lb. lots, works, 25-50 lb. lots, divd.:—
Violet, D&C, No. 2, cns lb. 16.10 - —
Yellow, D&C, No. 7, cns lb. 10.95 - —
No. 10, cns lb. 13.50 - —
No. 11, cns lb. 13.50 - —
Dyes, coaltar, certified colors for drugs and cosmetics, external use, 1-lb lots, works, 25-50 lb. lots, divd:—
Blue, Ext., D&C, No. 1, cns lb. 16.10 - —
Green, Ext., D&C, No. 1, cns lb. 16.10 - —
Red, Ext., D&C, No. 1, cns lb. 13.50 - —
Yellow, Ext., D&C, No. 1 cns lb. 10.95 - —
Dyes, coaltar, for general use in cloth dyeing (numbers are those of the Colour Index scale or prototype), contract, divd.
20 Chrysoidine Y lb. .64 - —
27 Fast light orange 2G lb. .78 - —
31 Phloxine 2G lb. .64 - —
36 Alizarine yellow 2G lb. .83 - —
40 Orange B extra conc lb. 1.06 - —
57 Fuchsine 6B lb. .96 - —
79 Scarlet 2R lb. .74 - —
151 Orange Y lb. .46 - —
161 Orange RR lb. .55 - —
176 Fast red A conc lb. .90 - —
179 Azo rubine XX conc lb. 1.04 - —
180 Blue F4B lb. .92 - —
185 Brilliant scarlet 3RN conc. lb. .93 - —
202 Chrome blue black, conc lb. .68 - —
203 Chrome black T lb. .71 - —
208 Fast blue SR lb. .91 - —
216 Chrome red B lb. .84 - —
234 Brown Y lb. .89 - —
246 Blue black extra, conc lb. .86 - —
275 Milling red 3R conc lb. 2.03 - —
289 Navy blue 3R, conc., 125% lb. 1.03 - —
299 Black F, conc lb. 1.40 - —
304 Neutral black 2B, conc., 200% lb. 2.01 - —

Dyes, coaltar for general use in cloth dyeing (numbers are those of the Colour Index scale or prototype), contract, divd.
326 Fast scarlet 4BNC lb. 1.64 - —
332 Bismarck brown RX, conc. lb. .86 - —
365 Brilliant yellow conc lb. 2.34 - —
382 Scarlet B lb. 1.65 - —
401 Diazo black, 5HD lb. .63 - —
406 Blue 2B extra conc lb. 1.07 - —
419 Diamine fast red FC lb. 1.12 - —
420 Diamine brown M lb. .90 - —
448 Benzo purpurine 4B, conc. lb. 1.18 - —
518 Diamine sky blue FF, extra, conc. lb. 1.50 - —
561 Trisulphon brown BCW, conc lb. 2.03 - —
581 Direct black E double lb. .89 - —
593 Direct Green lb. .65 - —
596 Yellow Brown K extra lb. .83 - —
620 Stilbene yellow G conc lb .92 - —
639 Xylene light yellow GX lb 1.79 - —
640 Tartrazine conc lb 1.46 - —
655 Auramine conc lb 1.85 - —
657 Victoria Green sml. cryst. lb. 1.70 - —
662 Brilliant green cryst lb. 2.79 - —
667 Brilliant milling green B, conc lb 3.63 - —
671 Brilliant Blue, E lb. 1.70 - —
696 Formyl violet S4B lb. 1.58 - —
631 Crystal violet powder lb. 2.15 - —
698 Formyl violet S4B lb. 1.58 - —
720 Chrome blue, BBG lb. 1.88 - —
729 Victoria blue, B, conc lb. 2.79 - —
749 Rhodamine B, extra lb. 4.33 - —
814 Fast. yellow, NNL, conc., 175% lb. 3.11 - —
841 Safranine T, extra, conc., 125% lb. 2.90 - —
865 Nigrosine, WSJ lb. .68 - —

Dyes, coaltar for general use in cloth dyeing (numbers are those of the Colour Index scale or prototype), contract, divd.
922 Methylene blue, ZX lb. 1.55 - —
978 Sulphogene carbon, GXCF, grains lb. .32 - —
1034 Alizarin, red S, cnc lb. 2.59 - —
1054 Anthraquinone, blue, B lb. 2.91 - —
1078 Anthraquinone, green, G lb. 2.72 - —
1085 Alizarin, blue, black, B lb. 2.33 - —
1096 Indanthrene golden orange, GFD, single paste lb. 2.00 - —
1099 Indanthrene, dark blue BO, single paste lb. 1.75 - —
1101 Brilliant green N, double paste lb. 2.36 - —
1106 Indanthrene blue RS, double paste lb. 2.57 - —
1113 Indanthrene blue BLNS double paste lb. 1.96 - —
1150 Indanthrene olive R, single paste lb. 1.10 - —
1151 Indanthrene brown R, single paste lb. 1.68 - —
1171 Indigo, synthetic, 20% paste. lb. .28 - —
double paste lb. 3.35 - —
1217 Sulphanthrene orange R, single paste lb. 1.65 - —
p-4 Acid anthracene, brown, PGN, lb. 2.30 - —
p-14 Anthracene chromate brown, 2B lb. 1.31 - —
p-24 Benzo fast black L lb. 1.45 - —
p-80 Diazo brilliant scarlet ROA. lb. 2.79 - —
p-202 Diazo black VJ, conc lb. 1.58 - —
p-244 Celliton scarlet B lb. 1.31 - —
p-313 Naphthol AS-SW lb. 2.42 - —
1078 Anthraquinone green G lb 2.72 - —
1085 Alizarin blue black B lb 2.33 - —

IF YOU ARE A

USER OF

50% CAUSTIC SODA

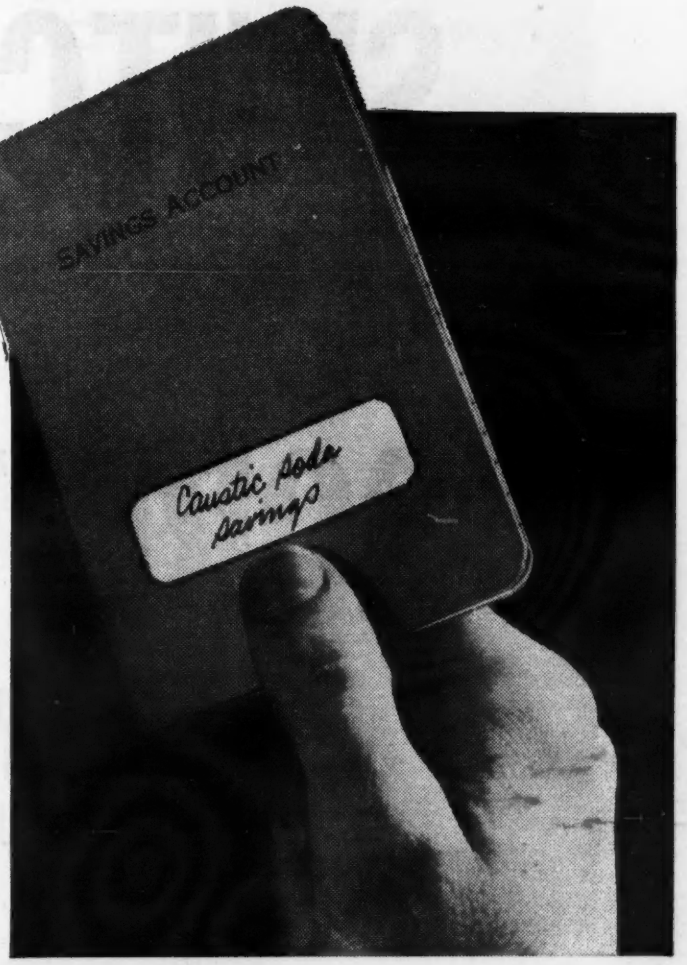
WOULD YOU

INVEST $2,120 IF

IT COULD SAVE YOU

$20,979

IN FIVE YEARS?



THIS CUSTOMER DID BY SIMPLY SWITCHING TO 73% CONCENTRATION

This is an actual case of a bleach manufacturer located in the south. It is by no means an exceptional experience. Naturally, the volume of caustic soda consumed determines the savings realized in switching from 50% to 73% concentration.

In 1952, this bleach manufacturer purchased 630 anhydrous tons of Columbia-Southern 73% caustic which cost $45,246.60 delivered.

If this customer had continued to buy the 50% liquor, it would have cost $49,442.40. A savings of $4,195.80 was realized the first year. In five years this amounts to $20,979.00. And of course the savings do not stop at the end of five years; they go on and on.

The total cost of equipment and installation necessary to effect these savings ran $2,120. We believe it will pay you as it did this customer to seriously investigate switching from 50% to 73%.

The unloading method used with 73% is a compact unit that combines unloading and diluting in a single operation.

Columbia-Southern's technical staff will be glad to make recommendations regarding the cost and location of this unit. Also, they will help you with the unloading of the initial shipment.

Write our Pittsburgh office to determine if your plant location offers you this opportunity for potential savings.

COLUMBIA-SOUTHERN
CHEMICAL CORPORATION
SUBSIDIARY OF PITTSBURGH PLATE GLASS COMPANY

EXECUTIVE OFFICES: FIFTH AVENUE AT BELLEFIELD, PITTSBURGH 13, PA. DISTRICT OFFICES: BOSTON • CHARLOTTE • CHICAGO • CINCINNATI • CLEVELAND
DALLAS • HOUSTON • MINNEAPOLIS • NEW ORLEANS • NEW YORK • PHILADELPHIA • PITTSBURGH • ST. LOUIS • SAN FRANCISCO

Dyes, Coaltar, for Stains, Oil-Soluble—Fluorspar

Dyes, coaltar, for stains, oil-soluble, 100-lb. dms., sellers' works.
- Black blue No. 550 ..... lb. .81 • —
- Jet, No. 551 ..... lb. .83 • —
- Brown R, conc. ..... lb. 1.72 • —
- Orange R, brilliant ..... lb. .90 • —
- Red 4 B, conc. ..... lb. 1.37 • —
- Yellow G ..... lb. 1.18 • —
- FN, conc. ..... lb. 1.22 • —

Dyes, coaltar, for stains, spirit-soluble, 100-lb. dms. sellers' works:—
- Auramine, O ..... lb 1.85 • —
- Black, basic blue ..... lb 1.21 • —
- Jet ..... lb. 1.21 • —
- Blue, methylene, 2 B, conc. lb. 1.53 • —
- Brown, Bismarck, R, conc lb. .86 • —
- Chrysodine, R, extra ..... lb. .60 • —
- Y, extra ..... lb. .64 • —
- Fuchsine, conc ..... lb 3.08 • —
- Green, malachite conc..... lb 2.10 • —
- Rhodamine B ..... lb 4.33 • —
- Safranine, Y, conc ..... lb 2.90 • —
- Violet, methyl 8 ..... lb 1.10 • —

Dyes, coaltar, for stains, water-soluble, 100-lb dms., sellers' works:
- Azo rubine R extra conc lb 1.04 • —
- Black, acid blue B, extra lb .86 • —
- Fast light, 3 G, extra..... lb. 2.04 • —
- Methanil conc ..... lb .91 • —
- Orange Acid, Y, conc..... lb. .47 • —

Dyes, coaltar, for stains, water-soluble, 100-lb. dms., sellers' works.
- Scarlet croceine, MOO..... lb 1.45 • —
- Yellow azo conc ..... lb. .90 • —

Oil-soluble, spirit-soluble, water-soluble dyes in kegs, 3c. higher; tins, 10c. higher.

E

- Echinacea root, bls ..... lb. .40 Nom.
- Egg albumen (see Albumen).
- Yolk, dried, dom., bbls ..... lb. 1.10 • 1.12
- Chinese, spot, bbls., duty paid. lb. No stocks.
- tanners bbls ..... lb. .06 • .06¼
- Elder flowers, bright, bls ..... lb. .30 • .40
- Elecampane root, bls ..... lb. .23 • .25
- Elm bark, grinding, bls ..... lb. .28 • .29
- powd., bbls., bxs ..... lb. .46 • .47
- select, bundles ..... lb. .60 • .61
- Emetine hydrochloride, USP, bots., oz.35.00 • 42.85
- Ephedrine synthetic, USP, anhydrous bots., 100-oz. lots oz. .98 • 1.00
- hydrous, bots., 100-oz. lots oz. .92 • —
- Hydrochloride, tin, 100-oz. lots.. oz. .75 • —
- Sulphate cryst., tins, 100-oz. lots oz. .72 • —
- powd., tins, 100-oz. lots oz. .73 • —
- Epichlorohydrin, dms, c.l., works lb. .38¾ • —
- l.c.l., works ..... lb. .39½ • —
- tanks, works ..... lb. .37 • —
- Epinephrine, synth., USP, bots., 100 grams gram. .45 • .50
- Epsom salt, tech., bgs., c.l., works, 100 lbs. 2.15 • —
- l.c.l., works .. 100 lbs. 2.90 • 3.15
- Epsom salt, USP, cryst., bgs., c.l., works..100 lbs. 2.35 • —
- l.c.l., 5,000 lbs., 1 withdrawal 100 lbs. 3.10 • —
- smaller lots .. 100 lbs 3.35 • —
- Ergosterol, unirradiated, cryst. kilo150.00 • —
- Ergot, NF, dms., tin-lined ..... lb. 2.75 • 3.10
- Eserine, bots ..... oz.45.00 • 50.00
- Salicylate, USP, bots ..... oz.32.50 • 34.00
- Sulphate, bots ..... oz.34.50 • 35.50
- Ether acetate (see Ethyl acetate).
- Butyl, dms., c.l., works ..... lb. .31½ • —
- l.c.l., works ..... lb. .32 • —
- tanks, works ..... lb. .30 • —
- Butyric (see Ethyl butyrate).
- Dichloroethyl refd., dlvd. dms., c.l., E.. lb. .14 • .14½
- l.c.l., same basis ..... lb. .15 • .16
- tanks, same basis ..... lb. .13 • —
- technical, dms., c.l., works .. lb. .13 • —
- l.c.l., works ..... lb. .13½ • —
- tanks, works ..... lb. .12 • —
- Ethyl, absolute, ACS, dms ..... lb. .37 • —
- anesthesia, USP, hospitals, 1-lb. cns. lb. .89 • —
- ½-lb cns ..... lb. .97 • —
- ¼-lb cns ..... lb. 1.05 • —
- solvent, USP, dms., c.l., dlvd.. lb. .15¾ • —
- l.c.l., same basis ..... lb. .16¾ • —
- tanks, same basis ..... lb. .13¾ • —
- synthetic, dms., c.l., dlvd. E.. lb. .1375 • —
- l.c.l., same basis ..... lb. .1675 • —
- tanks, same basis ..... lb. .1375 • —
- Isopropyl, dms., c.l., dlvd ..... lb. .0675 • .0850
- l.c.l., dlvd. ..... lb. .0750 • .0936
- tanks, dlvd ..... lb. .05 • .075
- Nitrous, conc., bots., 100-lb. lots lb. 1.28 • 1.35
- Vinyl, USP, anesthesia, bots., 50 cc. hospitals bot. 1.12 • —
- 75 cc. hospitals .. .. bot. 1.50 • —
- Ethyl acetate, natural, fermentation 85-88%, dms., c.l., frt. alld. lb. .12¾ • —
- l.c.l., frt. alld ..... lb. .13¾ • —
- tanks, frt. alld ..... lb. .11 • —
- 95-98%, dms., c.l., frt. alld. lb. .13 • —
- l.c.l., frt. alld ..... lb. .13¾ • —
- tanks, frt. alld ..... lb. .11¼ • —
- Ethyl acetate, nat., fermentation, 99%, dms., c.l., frt. alld.. lb. .13¼ • —
- l.c.l., frt. alld ..... lb. .14 • —
- tanks, frt. alld ..... lb. .11½ • —
- NF, dms., frt. alld ..... lb. .24 • .25
- synthetic, 85-90%, dms., c.l., dlvd.. lb. .12¾ • —
- l.c.l., dlvd ..... lb. .13½ • —
- tanks, dlvd ..... lb. .11 • —
- 95-98%, dms., c.l., dlvd ..... lb. .13 • —
- l.c.l., dlvd ..... lb. .13¾ • —
- tanks, dlvd ..... lb. .11¼ • —
- 99%, dms., c.l., dlvd ..... lb. .13¾ • —
- l.c.l., dlvd ..... lb. .14 • —
- tanks, dlvd ..... lb. .11½ • —
- Acetoacetate, dms., c.l., dlvd.. lb. .53 • —
- l.c.l., dlvd ..... lb. .56½ • —
- Acrylate, dms., c.l., and truck load, works.. lb. .43½ • —
- less than truckload, works.. lb. .44 • —
- tanks, works ..... lb. .42 • —
- Aminobenzate, USP (see Benzocaine)
- Benzoate, cns., dms ..... lb. .74 • 90
- Bromide, tech., 98%, dms ..... lb. .43 • .47
- Butyrate, works ..... lb. .80 • 1.02
- Carbamate (see Urethane).
- Chloride, tech, dms, c.l., works, lb. .18 • .20
- cyls., c.l., same basis ..... lb. .20 • .22
- tanks, same basis ..... lb. .10 • —
- USP, bbls, cyls ..... lb. .22 • .24
- Cinnamate, cns ..... lb. 2.28 • 2.53
- Formate, dms ..... lb. .60 • —
- Gallate, dms., 100 to 2,000-lb. lots lb. 3.90 • 4.40
- Iodide, bots., works ..... lb. 4.13 • —
- Lactate, dms., works ..... lb. .47½ • —
- Methacrylate, dms., c.l., and truckload works lb. .50 • —
- less than truckload works lb. .50½ • —
- Nitrite (see Ether nitrous).
- Oenanthate, dms ..... lb. 1.00 • 1.50
- Oleate, dms., l.c.l., works ..... lb. No prices.
- Oxalate (see Diethyl oxalate).
- Silicate, dist. (see Tetraethyl orthosilicate).
- 40% available SiO_2, dms., works, lb. .60½ • —
- Ethylaiphanaphthylamine (see Monoethylaiphanaphthylamine).
- Ethylamine (see Mono-, Di-, or Tri-)
- Ethylanilin (see Monoethylanilin)
- Ethylbenzene, 99%, dms., c.l. ..... lb. .14 • .20¼
- l.c.l. ..... lb. .15 • .21¼
- tanks ..... lb. .13 • .18½
- Ethylbutylketone, dms., c.l., works, lb. .33½ • —
- l.c.l., works ..... lb. .34 • —
- tanks ..... lb. .32 • —
- Ethylcellulose, vis. 7 cps., bgs., 5,000 lb. lots or more, works lb. .70 • —
- smaller lots, works lb. .72 • .80
- vis. 10, 20, 50, 100, 150 cps., bgs., 5,000-lb. lots or more, works lb. .65 • —
- smaller lots ..... lb. .67 • .75
- Ethylene dichloride, dms., c.l., dlvd. E lb. .11¾ • —
- l.c.l., same basis ..... lb. .12¾ • —
- tanks, same basis ..... lb. .10 • —

Ethylene dichloride prices W. of Rockies 1c per lb. higher.
- Oxide, cyls., c.l., works ..... lb. .26 • —
- l.c.l. works ..... lb. .27 • —
- tanks, dlvd E ..... lb. .19 • —
- Trichloride (see Trichloroethane).
- Ethylenediamine, 85-88%, basis 100% dms., c.l., dlvd. E .. lb. .46 • —
- l.c.l., dlvd. E ..... lb. .47 • —
- tanks, dlvd. E ..... lb. .44 • —
- Ethyleneglycol, dms., c.l., dlvd. E, lb. .13¾ • —
- l.c.l., same basis ..... lb. .19¾ • —
- tanks, same basis ..... lb. .17 • —
- Monobutylether, dms., c.l., dlvd. E .. lb. .21½ • —
- l.c.l., dlvd. E ..... lb. .22½ • —
- tanks, dlvd E ..... lb. .20 • —
- Monoethylether, dms., c.l., dlvd. E .. lb. .20 • —
- l.c.l., dlvd. E ..... lb. .21 • —
- tanks, dlvd. E ..... lb. .18½ • —
- Monoethylether acetate, dms., c.l., dlvd. E .. lb. .18¼ • —
- l.c.l., dlvd. E ..... lb. .19¼ • —
- tanks, dlvd. E ..... lb. .16½ • —
- Monomethylether, dms., c.l., dlvd. E .. lb. .21½ • —
- l.c.l., dlvd. E ..... lb. .22½ • —
- tanks, dlvd. E ..... lb. .20 • —
- Monomethylether acetate, dms., c.l., dlvd. E .. lb. .26¾ • —
- l.c.l., dlvd. E ..... lb. .29¼ • —
- tanks, dlvd. E ..... lb. .27 • —
- Monostearate, dms ..... lb. .30 • .37
- Ethylethanolamines, mixed, dms., c.l., frt alld., E. Miss lb. .42 • —
- l.c.l., same basis ..... lb. .43 • —
- tanks, same basis ..... lb. .40 • —
- Ethylmorphine hydrochloride, USP, bots oz.11.85 • —
- Ethylorthotoluidin (see Monoethylorthotoluidin)
- Ethylvanillin, cns., 25-lb. lots.... lb. 6.75 • 7.30
- smaller lots ..... lb. 7.35 • 7.40
- Eucalyptol, USP, cns., dms ..... lb. 1.45 • 1.75
- Eucalyptus leaves, bls ..... lb. .10 • .11
- Eugenol, pure, USP, bots ..... lb. 2.25 • 3.65
- Euphorbia herb, bls ..... lb. .15 • .16

F

- Feldspar, enamel, 100 mesh, bgs., works ton.20.00 • 22.00
- Glass, 20 mesh, bulk, tons, works ton.11.75 • 12.50
- Pottery, bgs., ton lots, works ton.20.00 • 22.00
- bulk, c.l., works ton.18.00 • 20.00
- Fennel seed, Czech, dark, bgs.... lb. .16½ • .17
- French, bgs. ..... lb. .34 • —
- Syrian, light, bgs ..... lb. .31 • .31½
- Fenugreek seed, Moroccan, bgs.. lb. .06½ • .07
- Ferric-ammonium citrate (see Iron ammonium citrate)
- Ferric cacodylate (see Iron cacodylate)
- Ferric glycerophosphate (see Iron glycerophosphate)
- Ferric hypophosphite (see Iron hypophosphite)
- Ferric sulphate (see Iron sulphate ferric)
- Ferrous gluconate, NF, dms ..... lb. .83 • .87
- Fir, balsam, Canada, cns ..... gal.32.00 • 33.00
- Oregon, bbls ..... gal. 3.25 • 3.30
- Fishberries, bgs ..... lb. .17 • .21
- Fishliver oil (see Oil, fishliver)
- Fishmeal ground, domestic, 60% protein, bulk, Balto area ton.135.00 • —
- Fishscrap, dried 60% protein, bulk, Balto area ton.129.00 • —
- Fluorspar, dom., acid grade, bulk, c.l., mine ..ton.60.00 • —
- ceramic grade, 93-96% CaF_2, grd., bulk, mine, c.l..ton.37.50 • —
- 85-92% CaF_2, grd., bulk, mine, ton.47.00 • —
- Fluorspar, metallurgical grade, briquetts, pellets, 65% CaF_2, bulk, works..ton.34.00 • —
- lump, 59-65% effective CaF_2, bulk, mine, c.l..ton.40.00 • —
- washed gravel, 59-60% effective CaF_2, bulk, mine, c.l..ton.40.00 • —
- 60-65% effective CaF_2, bulk, mine..ton.40.00 • 41.00
- 65-70% effective CaF_2, bulk, mine, c.l..ton.42.00 • —
- 70% or better, effective CaF_2, bulk, mine, c.l..ton.43.00 • —

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As a superior moisture conditioner and chemical starting material, sorbitol has been making news in many industries. Today, the biggest news about sorbitol is dollars you can save.

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Shredded coconut
Textile finishes
Tobacco
Glues
Pharmaceuticals

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Varnishes
Resins
Detergents
Emulsifiers
Vitamin C

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ATLAS POWDER COMPANY

WILMINGTON 99, DELAWARE

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BRANTFORD, CANADA

Formaldehyde, NF (inhibited), dms., c.l., E., works lb. .066 - —
l.c.l., E. works lb. .071 - —
tanks, E. works lb. .0420- —
methanol-free (uninhibited), tanks, works lb. .0395- —

Tankcar and tankwagon prices above are on a delivered basis in New England, Eastern New York, N. J., Eastern Penna. and part of Delaware, in states other than Eastern Seaboard as well as W. of Rockies, prices f.o.b. Texas plants, are .0270 for inhibited and .0245 for uninhibited.

Fleaseed (see Psyllium seed).
Fringetree bark, bls lb. .60 - .61
Fuller's earth dom., powd., bgs., c.i.,
Fla., Ga. mines ton.38.50 - —
Illinois mines ton.37.20 - —
spent, bulk, Bayonne ton 2.00 - 4.00
imported, bgs., c.i ton.30.00 -40.00
Furfural, tech., dms., c.l., works lb. .13 - —
l.c.l., works lb. .15 - —
tanks, works lb. .108 - —
Fusel oil, refined, dms., c.l., dlvd lb. .16¾- .17¼
l.c.l., dlvd lb. .17½- .18
tanks, dlvd lb. .15 - .15½
Fustic extract, cryst., No. 1, bbls., l.c.l lb. .47½- —
No. 2, bbls., l.c.l lb. .45½- —
No. 3, bbls., l.c.l lb. .43½- —
liquid, No. 1, bbls., l.c.l. lb. .22½- —
No. 2, bbls., l.c.l. lb. .21½- —
No. 3, bbls., l.c.l. lb. .19 - —
solid, No. 1, bxs., l.c.l. lb. .45 - —

G

G salt, bbls., frt. alld lb. .73 - —
Galangal root, bls lb. .18 - .25
Gammapicoline, 95%, dms., c.l., works lb. No stocks.
Gasoline, at refinery, ex tax, Arkansas 80 octane tanks gal. .1075- —
N. Y. Harbor, 86 octane, tanks gal. .1285- .138
Group 3, 82 octane, tanks gal. .10375- .1062
Gulf coast 87 octane, tanks gal. .1125- .1150
Penn., western U. S. motor, 86 octane, tanks gal. .1275- .129
natural, group 3, 26-70 octane, tanks gal. .0550- —
Gelatin, edible pure, (pork skin), 75 Bloom test, c.l. lb. .57 - —
150 Bloom test, c.l. lb. .65 - .66
200 Bloom test, c.l. lb. .71 - .72
225 Bloom test, c.l. lb. .74 - .75
275 Bloom test, c.l. lb. .82 - .85
silver label, imp., cs lb. 1.25 - —
Gelsemium root, bls lb. .26 - .27
Gentian root, bls lb. .17 - .20
grd., bbls., bxs lb. .22 - .23
powd., bbls., bxs lb. .23 - .24
Geraniol, extra, cns., dms. lb. 1.40 - 1.70
standard, cns., dms. lb. .60 - .75
Geranyl acetate, cns. lb. 1.30 - 1.80
Ginger, oleoresin, NF, from African roots, bots. lb. 4.00 - 7.75
from Jamaican root, bls. lb. 5.00 -12.75
Root, African, bls lb. .16½- .17
Cochin, unbleached, bgs. lb. .18½- —
Jamaica, No. 1, bgs. lb. .24 - .24½
No. 2, bgs. lb. .16½- .17
No. 3, bgs. lb. .15½- .16
Rhattoon, bgs lb. .14½- .15
Nigerian, split, bgs. lb. .12½- .13
Ginseng root, cs lb. 16.50 -17.00
Glauber's salt, anhyd. see Sodium sulphate)
Glue, bone, extracted, 66 jellygrams, bgs., c.l., dlvd lb. .24½- —
86 jellygrams, same basis lb. .25 - —
104 jellygrams, same basis lb. .25½- —
1.1 jellygrams, same basis lb. .26 - —
164 jellygrams, same basis lb. .26½- —
191 jellygrams, same basis lb. .27 - —
222 jellygrams, same basis lb. .28 - —
packers' 49 jellygrams, bgs., c.l., dlvd. lb. .21½- —
65 jellygrams, same basis lb. .22½- —
86 jellygrams, same basis lb. .23 - —
115 jellygrams, same basis lb. .24 - —
135 jellygrams, same basis lb. .25 - —
164 jellygrams, same basis lb. .26 - —
185 jellygrams, same basis lb. .27 - —
renderers' 110 jellygrams, bgs., c.l., dlvd. lb. .22 - —
150 jellygrams, same basis lb. .23 - —
190 jellygrams, same basis lb. .24 - —
bone glue, t.c.l. prices 1c. higher.
Hide, 70-94 jellygrams, bgs., c.l., dlvd. lb. .26 - —
95-121, bgs., c.l., dlvd lb. .27½- .28
122-149, bgs., c.l., dlvd lb. .29 - .29½
150-177, bgs., c.l., dlvd lb. .30 - .31
178-206, bgs., c.l., dlvd lb. .31 - .32
207-236, bgs., c.l., dlvd lb. .32 - .33
237-266, bgs., c.l., dlvd lb. .33 - .34
267-296, bgs., c.l., dlvd lb. .34 - .35
299-330, bgs., c.l., dlvd lb. .35 - .36
331-362, bgs., c.l., dlvd lb. .36 - .37
363-394, bgs., c.l., dlvd lb. .37 - .38
395-427, bgs., c.l., dlvd lb. .38 - .39
428-460, bgs., c.l., dlvd lb. .40 - .41
461-494, bgs., c.l., dlvd lb. .41 - .43
495-529, bgs., c.l., dlvd lb. .42 - .45
Hide glue t.c.l. prices 1c. higher than c.l.
Glycerin, crude, saponification, 88%, to refiners, tanks, dlvd. lb. .31 - —
soaplye, 80%, tanks, dlvd. lb. .31 - —
dynamite, dms., c.l., dlvd lb. .43¾- —
l.c.l., dlvd lb. .44¼- —
tanks, dlvd lb. .43¼- —
high gravity, dms., c.l., dlvd. lb. .44 - —
l.c.l., dlvd lb. .44½- —
tanks, dlvd lb. .43½- —
refined BP, 98%, dms., c.l., dlvd. lb. .45½- —
l.c.l., dlvd lb. .46¾- —
tanks, dlvd lb. .45¾- —
USP, CP, 95%, dms., c.l., dlvd. lb. .44½- —
l.c.l., dlvd lb. .45 - —
tanks, dlvd lb. .44 - —
yellow, distilled, dms., c.l., dlvd. lb. .43½- —
l.c.l., dlvd lb. .44⅝- —
tanks, dlvd lb. .43⅜- —
Glycine, USP (see Acid aminoacetic)
Glyoxal, 30%, dms., c.l. works lb. .18½- —
l.c.l., works lb. .19 - —
tanks, works lb. .18 - —
Gold chloride, acid-brown, bots. oz.22.50 -23.00
acid-yellow, bots oz.20.00 -20.50
Golden seal root, NF, tested, bls. lb. 2.80 - 2.85
powd., bxs lb. 3.10 - 3.15
Grains of paradise, bgs lb. .32½- —
Graphite, amorph., powd., bgs., fib. dms., ex whse lb. .03 - .09½
crystalline, 80-90%, powd., bgs., fib. dms., ex whse lb. .19 - .21½
90-92%, powd., bgs., fib. dms., ex whse lb. .21 - .44½
95-97%, powd., bgs., fib. dms., ex whse lb. .29 - .31½
flake, No. 1, 90-95%, bgs., fib. dms., ex whse lb. .29 - .31
No. 2, 90-95%, bgs., fib. dms., ex whse lb. .29 - .31
Grease, brown, tanks, dlvd lb. .04½- —
house lb. .04½- —
white, choice lb. .05¾- —
yellow lb. .04⅝- —
Green, brilliant, (thioflavin, toner, molybdated, PMA, bgs., works lb. 4.50 - —
tungstated, PTMA, bgs., works lb. 6.30 - —
Chrome, CP, dark, light, medium, blue content 5 to 30%, bbls., dlvd. N. of Tenn. and N. C., E. of Miss., (including St. Paul, Minneapolis, Davenport, Rock Island, St. Louis lb. .37 - —
31-50%, bbls., same basis, lb. .37 - .38
50-60%, bbls., same basis, lb. .40 - —
reduced color, 25%, bbls., same basis lb. .17 - .17¼
Chrome green prices are ½c. higher dlvd. Ala., Fla., Ga., La. (Shreveport 1½c.), Miss., N. C., S. C., Tenn., Texas (Dallas, Ft. Worth, 1¼c.; El Paso, 2c.); Cedar Rapids, Des Moines, Kansas City, Lincoln, Omaha, St. Joseph; 1c. higher dlvd. Pac. coast; for Denver, Pueblo, Salt Lake City, Wichita prices are equalized with Chicago.
Chromium oxide, hydrated, bbls., dms., c.l., frt. alld lb. .95 - 1.20
pure, c.l., bgs., frt. alld lb. .37½- .44
Dyes (see Dyes, coaltar)
Emerald, malachite toner, tungstite, PTMA, bbls., works lb. 4.50 - 5.50
Paris (see Paris green)
Phthalocyanin toner, bbls., works. lb. 4.40 - —
resinated, bbls lb. 4.00 - —
water dispersable, bbls lb. 1.71 - —
Pigment B, kegs lb. 1.35 - —
Grindelia robusta herb, bls lb. .38 - .40
Guaiac resin, NF, cs lb. .55 - .60
ordinary, cs lb. .49 - .51
Guaiacol, cryst., tins lb. 1.90 - —
liquid, NF, bots., cbys lb 2.15 - 2.20
Carbonate, dms. lb. 3.15 - 3.20
Guarana, powd., cs lb. 2.00 - —
Gum accroides (see Gum yacca).
Aloe (see A.)
Ammoniac tears, cs lb. .33 - .63
Arabic, amber sorts, bgs. lb. .13½- .15
powdered, USP, bbls. lb. .19 - .21
Asafetida (see A).
Asphaltum (see A).
Benzoin, Sumatra, cs lb. .33 - .42
Camphor (see C).
Cellulose, bgs., 25,000 lbs. or more, works, frt. alld lb. .60 - —
smaller lots same basis lb. .62 - —
Copal, Congo, No. 1, bgs. lb. .21 - .23
No. 2, bgs lb. .19 - .20
No. 3, bgs lb. .17½- .18½
Manila, loba B, bgs. lb. No prices.
C, bgs lb. .27 - .32
CBB, bgs. lb. .22 - .23
CNE, bgs. lb. No prices.
DBB, bgs. lb. .14 - .18
DE, bgs. lb. .13 - .15
dust, bgs. lb. .11 - .12½
soft, MA, bgs. lb. .13 - .16
WS, bgs. lb. .27 - .35
Philippine, pale, chips, bgs. lb. .18 - .25
nubs, bgs lb. .27 - .32
seeds, bgs lb. .15 - .21
sorts, bgs. lb. .18 - .22
Pontianak, chips, bgs. lb. .22 - .26
nubs, bgs lb. .36 - .40
Dammar, Batavia, A E bgs. lb. .24 - .26
dust, bgs. lb. .14 - .16
E, bgs. lb. .16 - .18
East India, batu, bold, bgs lb. .12 - .14
nubs and chips, bgs lb. .06 - .10
black, bold bgs lb. .14½- .16
unscraped, bgs lb. .12 - .13
nubs and chips, bgs lb. .11 - .13
pale, chips, bgs. lb. .13 - .14
nubs, bgs. lb. .19 - .20

Formaldehyde—Gum, Scammony

Gum, dammar Singapore, No. 1 bgs. lb. .35 - .38
No. 2, bgs lb. .28 - .32
No. 3, bgs. lb. .16 - .17
dust, bgs. lb. .14 - .16
seeds, bgs. lb. .16 - .18
Ester, gum-rosin type, dms., c.l., dlvd. Ill. Ind. Ky., Mich. Mid Atl. States N E. States Minneapolis, N C., Ohio St. Louis, St Paul, Va., W. Va. lb. .14 - .14½
wood-rosin type, dms., c.l. dlvd., Ill., Ind., etc lb. .14 - —
Euphorbium, cs. lb. .55 - .60
Galbanum, cs lb. 75 - .90
Gamboge, pipe, cs lb. .90 - 1.00
powd., bbls lb. 90 1.20
Ghatti, No. 2, bgs lb. .35 - .37
No. 3, bgs lb. 31 - .33
Guaiac (see Guaiac resin).
Karaya, NF, powd., No. 1, bbls lb. .30 - .35
No. 2, bbls lb. .28 - .29
No. 3, bbls lb. .22 - .23
Kauri bgs. lb. .30 - .50
Kino, cs lb. 1.50 - 2.40
Locust bean, powd., bgs lb. .30 - .32
Mastic, cs lb. 2.00 - 2.10
Myrrh, cs lb. .30 - .40
Olibanum siftings, cs lb. .14 - .22
tears, cs lb. .26 - .30
Opium (see O)
Red (see Gum yacca).
Rosin (see R).
Sandarac, cks. lb 3.50 - 4.00
Scammony, cs. lb. 1.50 - 1.55

For over 25 years, Rohm & Haas has used Glycerine in the manufacture of its famous "Amberol F-7." This versatile modified-phenolic resin is used in floor varnishes, quick-drying enamels for home decorating and furniture refinishing, porch and deck paint, and marine finishes.

In the manufacture of Rohm & Haas' "Amberol F-7," a phenolic condensate reacts with Glycerine and rosin to yield a chemically and physically homogeneous, high molecular weight compound. Without this chemical combination with Glycerine and rosin, the phenolic condensate would be insoluble and could not be used in drying oils. Just one more example of the vital part Glycerine plays in the protective coatings industry.

In alkyd resin manufacture, too, America's leading paint manufacturers turn to Glycerine. They prefer its better cooking qualities. They know that Glycerine permits easy control of the manufacturing process to give a product of low acid number, without undue hazard of gelation.

If you'd like detailed information on Glycerine's chemical and physical properties write for your copy of "Why Glycerine for Alkyd Resins and Ester Gums?"—Glycerine Producers' Association, 295 Madison Avenue, New York 17, N. Y.

Nothing takes the place of Glycerine

Gum, Sterculia—Kola Nuts

Gum, sterculia (see Gum karaya).
Talha, bgs ..... lb. .10 - .11
Tragacanth, No. 1, cs ..... lb. 2.85 - 2.90
No. 2, cs ..... lb. 2.45 - 2.50
No 3, cs ..... lb. 1.60 - 1.70
powdered, USP, bbls ..... lb. 1.25 - 1.35
Yacca, bgs ..... lb. .06 - —
Gypsum, anhydrous filler paper bgs., c.l., Medicine Lodge Kan ton.19.00 - —
Plaster of paris, paper bgs., c.l., Baltimore, frt. equald ton.18.30 - —
Harlem river, N. Y., frt. equald ton.17.30 - —
Medicine Lodge, Kan., frt. equald ton.16.00 - —
Stucco, paper bgs., Akron, N. Y., frt. equald ton. 8.00 - —
Blue Rapids, Kans., frt. equald ton. 8.00 - —
Fort Dodge Iowa, frt equald. ton. 8.00 - —
Gypsum, Ohio, frt. equald. ton 8.00 - —
Grand Rapids, Mich., frt. equald ton. 8.00 - —
New Brighton N. Y., frt. equald ton 8.00 - —
Plasterco, Ga., frt. equald. ton 8.00 - —
Roton, Texas frt. equald ton 8.00 - —
Southard, Okla., frt. equald. ton. 8.00 - —
Sweetwater, Texas, frt. equald ton. 8.00 - —
Terra alba, com., paper bgs., c.l., Baltimore ton.14.40 - —
Harlem River, N. Y ton.14.40 - —
Imported, English, paper bgs., ex dock ton.18.00 - —
ex warehouse ..... ton.53.00 -56.00

H

Hawthorn berries, bgs ..... lb. .30 - .32
Heliotropine, cryst., cns ..... lb. 3.10 - 3.45
Helonias root, bls ..... lb. 1.65 - 1.70
Hellebore root, dom., green, bls .. lb. .60 - .65
imp., black, whole, bls .... lb. .25 - .30
ground, bxs ..... lb. .30 - .35
powder, bxs ..... lb. .32 - .37
white, whole, bls ..... lb. .25 - .30
powder, bxs ..... lb. .35 - .45
Hematine extract, cryst, No. 1, bbls., l.c.l.. lb. .47 - —
No. 2, bbls., l.c.l. ..... lb. .43 - —
No. 3, bbls., l.c.l. ..... lb. .41 - —
No. 4, bbls., l.c.l. ..... lb. .39 - —
No 5, bbls., l.c.l. ..... lb. .37 - —
paste, No. 1, bbls., l.c.l. ..... lb. .20½ - —
Henbane leaves, bls ..... lb. .35 - .40
Henna leaves, bls ..... lb. .18 - .20
powd., bbls., bgs ..... lb. .26 - .28
Heptane, industrial, Bayonne, N. J., tanks gal. .18 - —
group 3, tanks gal. .1375- .1405
Hesperidin methylchalcone, bots., wrks. lb.50.00 - —
Hexachlorophene, dms ..... lb. 2.60 - —
Hexalin (see Cyclohexanol).
Hexamethylenetetramine, tech., bgs., 1,000-lb lots or more, Perth Amboy or N. Y. C. lb. .239 - —
less than 1,000-lb. lots, same basis lb. .242 - —
fib dms., 1,000-lb. lots or more, same basis lb. .239 - —
less than 1,000-lb. lots, same basis. lb. .240 - —
USP, dms., 500 lbs or more, same basis lb. .40½- —
smaller lots, same basis.... lb. .41½- —
Hexamine (see Hexamethylene tetramine).
Hexane, industrial, Bayonne, N. J., tanks gal. .18 - —
Group 3, tanks ..... gal. .145 - .148
Hexanol, normal, dms., c.l., works, lb. .34½- —
l.c.l., works ..... lb. .35 - —
tanks, works ..... lb. .33 - —
Hexyl cinnamic aldehyee, dms. lb. 2.25 - 7.50
Salicylate, dms ..... lb. 1.75 - —
Hexyleneglycol, dms., c.l., dlvd lb. .15¾- —
l.c.l., dlvd ..... lb. .16½- —
tanks, dlvd ..... lb. .14 - —
Hexylmethacrylate, normal, dms., less than truckload, works. lb. .71 - —
Hexylresorcinol, USP, dms., dlvd., 50-lb. lots or more lb.15.00 -16.00
smaller lots, dlvd ..... lb.16.00 -17.00
Histamine diphosphate, USP., bots. kilo.450-00 - —
Histidine hydrochloride, laevo, NF, fib. dms., 50-kilo lots, works. kilo.80.00 -85.00
1-5 kilo lots works ..... kilo.90.00 -95.00
Homatropine hydrobromide, USP, bots oz.13.75 -14.00
Hydrochloride, bots ..... oz.20.00 -22.00
Methylbromide, USP bots ... oz.13.00 -14.50
Hoofmeal, 17-18% ammonia, bulk, c.l., Chicago..unit-ton. 6.75 - —
Hops, NF, bls ..... lb. .30 - .35
Horehound herb, bls ..... lb. .14 - .15
Hydrangea root, bls ..... lb. .22 - .25
Hydrastine, bots ..... oz.29.50 -31.00
Hydrochloride, NF, bots ..... oz.29.50 -31.00
Sulphate, bots ..... oz.35.00 -37.00
Hydrastinine, 10-grain bots .... bot. 1.95 - —
Hydrastis (see Goldenseal).
Hydrazine, free base, ret. dms., Niagara Falls..lb. 3.00 - 3.30
Hydrate, 100%, ret. dms., Niagara Falls..lb. 1.75 - 1.95
85%, same basis ..... lb. 1.35 - 1.55
Hydrofuramide, dms., fib. ctns., works lb. .30 - .40
Hydrogen chloride anhyd., 50-lb cyl., works lb. .55 - .60
Peroxide, USP bbls., dlvd .... lb. .03¾- .05
35%, chys., same basis ..... lb. .217 - .243
dms., c.l., same basis ..... lb. .21 - —
l.c.l., same basis ..... lb. .215 - .24
tanks ..... lb. .203 - —
Hydrogen peroxide prices on W. Coast 2c per lb. higher.
Hydroquinone, photogrd., bbls., dms. lb. .98 - 1.00
tech., dms., c.l., frt. equald lb. .77 - —
l.c.l., frt. equald ..... lb. .78 - —
Hydroxycitronellal, cns ..... lb. 5.35 - 5.80
Hyoscine salts (see Scopolamine).
Hyoscyamine, bots ..... oz.15.75 -16.00
Hydrobromide, bots ..... oz.16.50 -18.00
Sulphate, bots ..... oz.12.00 -13.50
Hypernic extract, cryst., No. 2, bbls., l.c.l. lb. .52 - —
liquid, No. 1, bbls., l.c.l. ..... lb. .35 - —
No. 2, bbls., l.c.l. ..... lb. .27 - —
Hyssop herb, bgs ..... lb. .35 - .36
Leaves, bgs ..... lb. .50 - .51

I

Iceland moss, bgs ..... lb. .30 - .35
Ichthammol, NF, dms ..... lb. .60 - .75
Indian red (see Red, Indian).
Indigo (see Dyes, coaltar, 1171 Indigo synthetic).
Indol, CP, bots ..... lb 17.00 -21.00
Inositol, dms., dlvd ..... lb 5.60 - —
tins, dlvd ..... lb 5 70 - —
Insect flowers (see Pyrethrum).
Iodine, crude, kgs ..... lb. 1.84 - 2.04
resublimed, USP, bots., jars ... lb 2.55 - 2.78
Iodochlorohydroxyquin, USP, dms. lb 6.50 - —
Iodoform NF dms., kgs ..... lb 4 70 - 4.85
Ionone, alpha, cns ..... lb. 4.00 - 8.25
Beta, cns ..... lb 4.30 -11.25
Methyl, dms., cns ..... lb. 4.15 - 6.75
Ipecac root, bgs ..... lb. 5.60 - 6.00
powd., bbls., bxs ..... lb. 6.00 - 6.50
Irish moss, bleached, prime, bls .. lb. .28 - .30
Iron acetate liquor, 25°, bbls., c.l., works lb. .09 - —
l.c.l., works ..... lb. .09¾- —
solut., USP, IX, chys ..... lb. .16 - —
djns ..... lb 17 - —
Cacodylate, NF, bots ..... lb.13.00 -14.00
Chloride (ferric), anhydr., tech., dms., c.l., works 100 lbs. 6.25 - —
l.c.l., works ..... 100 lbs. 7.50 - —
cryst., indust., bbls., c.l., works 100 lbs. 5.25 - 6.25
l.c.l., works 100 lbs. 5.75 - 6.75
USP, dms., works lb. .07½- .09
solut., 42° Be, basis 100%, chys., c.l., works..100 lbs. 7.25 - 8.25
l.c.l., works..100 lbs. 7.75 -10.75
tanks, works ..... 100 lbs. 3.45 - —
Citrate, gran., dms ..... lb. .77 - .80
Gluconate, NF (see Ferrous gluconate, NF).
Glycerophosphate, NF, powd lb. 4.45 - 4.55
Hypophosphite, NF, dms ..... lb 2.80 - —
Iodide bgs ..... lb. 3.66 - 3.73
Naphthenate liq., 6% Fe., dms., frt. alld lb. .23¾- —
Oxalate, gran., dms ..... lb. .85 - .87
Phosphate, soluble, NF, gran., pearls, cs lb. .64 - .65
Pyrophosphate, soluble, NF VII, gran. pearls, dms lb. .78 - .81
Reduced, NF, kgs ..... lb. .90 - .95
Resinate, 6.75% Fe, dms., frt. alld. lb. .26¼- —
Stearate, dms., c.l. ..... lb. .37 - —
ton lots ..... lb. .38 - —
less ton lots ..... lb. .39 - —
Sulphate, ferric, partially hydrated, bgs., c.l., works ton.30.00 - —
l.c.l., works ..... ton.31.00 - —
ferrous, tech. (see Copperas).
USP, cryst., bbls., dms ... lb. .09½- .10
Iron by hydrogen (see Iron, Reduced).
Iron-ammonium citrate, brown, N.F., gran., dms lb. .55 - .60
green, USP XII, gran., dms lb. .55 - .59
Oxalate, fine gran., dms ..... lb. .25½- .28½
Iron-potassium, oxalate, fine gran., dms lb. .30½- .33½
Iron-sodium, oxalate, fine gran., dms. lb. .25½- .28½
Isoborneol, cns ..... lb. 1.25 - 1.70
Isobornyl acetate, cns ..... lb. .65 - .95
Formate, dms ..... lb. .80 - —
Propionate, dms ..... lb. 1.15 - 1.50
Isobutyl acetate, perfume grade, cns. lb. .75 - .97
solvent grade, dms., c.l., dlvd. E. of Rockies. lb. .13 - —
l.c.l., same basis ..... lb. .13¾- —
tanks, same basis ..... lb. .11¼- —
Methacrylate, dms., works ..... lb. .60 - —
Isobutyraldehyde, dms., works... lb. .50 - —
Isoeugenol, cns ..... lb. 3.65 - 3.95
Isoniazid, bulk, powder, 25-kilo lots or more..kilo.34.00 -35.00
smaller lots ..... kilo.35.00 -36.00
Isonicotinic acid hydrazide (see Isoniazid).
Isopentane, dms., works ..... lb. .43 - .55
Isophorone, dms., c.l., works .... lb. .24¼- —
l.c.l., works ..... lb. .24¾- —
tanks, works ..... lb. .22½- —
Isopropanol (see Alcohol, isopropyl).
Isopropyl acetate, dms., c.l., dlvd. lb. .11¾- —
l.c.l., same basis ..... lb. .12½- —
tanks, same basis ..... lb. .10 - —
Alcohol (see Alcohol, isopropyl).
Benzene (see Cumene).
Ether (see Ether, isopropyl).
Isopropylamine (see Mono-, Di- or Tri-)
Isopropylphenol, dms., c.l., works. lb. .46 - —
l.c.l., works ..... lb. .47 - —
tanks, works ..... lb. .45 - —
Isoquinolin, dms., works ..... lb. .65 - 1.25

J

Jaborandi leaves, bls ..... lb. .17 - .18
Jalap root, NF, bls ..... lb. .45 - .55
powd., bbls., bxs ..... lb. .50 - .60
Juniper berries, bgs ..... lb. .15 - .17
Tar, NF, dms ..... lb. .42 - .50

K

Kamala, powd., cns ..... lb. .60 - .65
Kava Kava root, bls ..... lb. .30 - .32
Kaolin (see also Clay, China).
NF, powd., fib. dms ..... lb. .03 - .16½
colloidal, fib. dms ..... lb. .15 - .15½
Kerosene, at refinery, Ark., 42-44 specific gravity, w.w., tanks, gal. .0925- —
California, 40-43 s.g., w.w., tanks, gal. .120 - .130
Gulf ports, 41-43 s.g., w.w., tanks, gal. .0970- .1015
N. Y. Harbor, 43-44 s.g., w.w., tanks..gal. .1075- —
Okla.-Tex., 41-43 s.g., w.w., tanks. gal. .0875- .095
Penn, Western, 43 s.g., w.w., tanks..gal. .1125- .1195
Kola nuts, bgs ..... lb. .06 - .09

Hooker Chemical Guide (ONE OF A SERIES)

USE this handy reference to save time in selecting high quality chemicals.

HOOKER Monochloroacetic Acid

Synonyms: Chloroacetic Acid, Chloroethanoic Acid

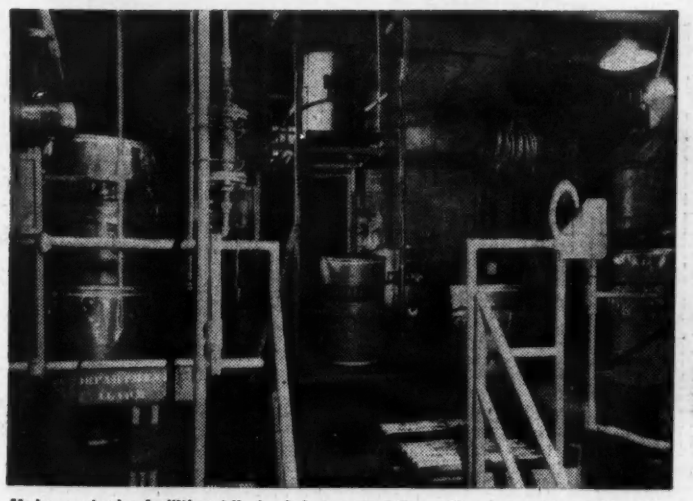
Formula: $CH_2ClCOOH$

Appearance: White crystalline material

Molecular Weight: 94.5

TYPICAL PROPERTIES

Freezing Point ..... 61.6°C
Boiling Point ..... 189°C



Modern packaging facilities at Hooker help to protect the quality of monochloroacetic acid.

USES

Intermediate: in manufacture of Carboxymethylcellulose, 2, 4-Dichlorophenoxyacetic acid, cyanoacetate, indigoid dyes, thioglycolic acid, glycine (aminoacetic acid) and other commercial chemicals.

• You can count on the quality of Hooker Monochloroacetic Acid. Every step in its manufacture is strictly controlled to maintain high standards of uniformity.

The product is packaged as a fine flake material, ready for use.

Deliveries are scheduled with care to meet your production needs and keep undesired inventory at a minimum.

Competent technical service men assist your plant personnel in safe handling and proper use of monochloroacetic acid and other Hooker products.

Finally, Hooker research and development groups are constantly at work improving production methods, and finding ways to make monochloroacetic acid and other Hooker Chemicals more useful to you.

For full information on Hooker Chemicals, write for General Products List No. 100. Address your request to Hooker Electrochemical Company, 1 Forty-Seventh Street, Niagara Falls, N. Y.

From the Salt of the Earth

HOOKER ELECTROCHEMICAL COMPANY
NIAGARA FALLS • TACOMA • NEW YORK • CHICAGO • LOS ANGELES

HOOKER CHEMICALS

3-18

Kyanite, imp., 60% alumina, low iron content, 10 mesh, bulk, whse ton.95.00 -100.00
calcined, grain, 10-mesh, whse. ton.95.00 -105.00

L

Lady's slipper root, bls lb. 1.70 - 1.75
Lanolin, cosmetic dms., works lb. .35½ - 40½
USP, anhydrous dms., works lb. .33½ - —
hydrous dms., works lb. .32 - —
Lard, cash, trcs., Chicago lb. .10½ - —
Larkspur seed, ogs lb. .20 - .25
Laurel berries, bgs lb. .25 - .26
Leaves, Greek, bls lb. .09 - .09½
Portuguese, bls lb. .10 - .10½
Turkish, bls lb. .11½ - .12
Yugoslavian, bls lb. .10 - .10½
Lauryl chloride, dms., works, frt. equald lb. .72 - —
Methacrylate, normal, dms., less than truckload, works lb. 1.00 - —
Lavender flowers, medium, bls lb. .55 - .60
ordinary, bls lb. .16 - .20
select, bls lb. .90 - —
Lead acetate, white crystals, bbls. lb. .22 - —
gran, bbls lb. .23 - —
powd., bbls lb. .23 - —
NF cryst., gran., powd lb. .31 - .32
Arsenate dealers, acid powder, frt. alld. on 98 lbs. or 3-lb bgs. or larger, c.l., over lb. .27½ - —
l.c.l., frt. alld lb. .28½ - —
1-lb. bgs., c.l. lb. .41½ - —
l.c.l. lb. .42½ - —
Blue, basic sulphate, bbls., c.l., ship't point, frt. alld. lb. .14¾ - —
l.c.l., works lb. .15¾ - —
Carbonate (see Lead, white).
Chloride, dms lb. .45 - —
Iodide, NF, V. jars lb. 3.82 - —
Linoleate, fused 26.5% dms lb. .32½ - —
Metal, pigs, prime, N. Y. lb. .1350 - —
St. Louis lb. .1330 - —
Metallic paste, dms., 20,000-40,000 lbs., works lb. .34¼ - —
10,000-20,000 lbs. same basis. lb. .34¾ - —
2,000-10,000 lbs. same basis. lb. .35¼ - —
200-2,000 lbs., same basis lb. .35¾ - —
Prices ex whse, Jersey City, N. J., 4½c. per lb. higher.
Monosilicate, bgs., c.l. lb. .1464 - —
l.c.l. lb. .1565 - —
Naphthenate, liquid, 16% Pb, dms., dlvd. lb. .17½ - —
24% Pb, dms., dlvd lb. .23¾ - —
solid, 37% Pb, dms., dlvd lb. .31 - —
Nitrate, bbls. lb. .22¼ - —
Oleate, fused, bbls lb. .29¾ - —
Orthosilicate gel, 50% PbO, dms., works lb. .32¾ - —
60% PbO dms. works lb. .31¾ - —
Peroxide, powd., tech., bbls. lb. .45 - .47
Phthalate, dibasic, dms., works. lb. .41 - —
Red, 95% Pb_3O_4, or less, bbls., c.l., ship't point, frt. alld. lb. .16¼ - —
l.c.l., same basis lb. .17¼ - —
97% Pb_3O_4, bbls., c.l., same basis lb. .16½ - —
l.c.l., same basis lb. .17½ - —
98% Pb_3O_4, bbls., c.l., same basis lb. .16¾ - —
l.c.l., same basis lb. .17¾ - —
Resinate, precip., dms., dlvd lb. .28½ - —
Salicylate, normal, dms., works. lb. .46 - —
Stearate, dibasic, ton lots lb. .54 - —
precip., bbls., c.l. lb. .39 - —
tnn lots lb. .40 - —
less ton lots lb. .41 - —
Sulphate (see Lead blue; Lead white; basic sulphate).
Tallate, liquid, 16% Pb dms lb. .15¼ - —
24% Pb, dms lb. .20½ - —
White, basic, carbonate, bgs., c.l., ship't point, frt. alld. lb. .15¾ - —
l.c.l., same basis lb. .16¾ - —
basic silicate, bgs. c.l., ship't point, frt. alld. lb. .15 - .17¾
l.c.l., same basis lb. .16 - .18¾
basic sulphate, bgs., c.l., ship't point, frt. alld. lb. .14¾ - —
l.c.l., same basis lb. .15¾ - —
Lecithin, edible, tech., bleached dms., non-ret., c.l., works. lb. .15¼ - .19
l.c.l., same basis lb. .16½ - .19
unbleached, c.l., same basis lb. .14½ - .15
l.c.l., same basis lb. .16 - .18
Lemon peel, bls lb. .20 - .26
Leucine dextro-laevo, dms., works. lb. 12.25 - 15.00
Licorice extract, mass, cns lb. .21¼ - .40
powd., bbls lb. .31¾ - .50
Root, bls. lb. .05½ - .08
5-lb. bundles, cs lb. .50 - .55
powd., bbls lb. .13 - .13¼
Lignin extract, tanning grade, bgs., c.l., works lb. .05¼ - .06½
Lime, agricultural, bulk, works ton 14.50 - —
Chemical (quicklime), lump, pebble, bulk, Adams, Mass. ton 12.50 - —
Annville, Pa ton 11.50 - —
Austin, Texas ton. 9.50 - —
Bellefonte, Pa ton 11.50 - —
Buffalo, N. Y ton 14.00 - —
Cedar Hollow, Pa ton 11.50 - —
Duluth, Minn ton 12.50 - —
El Paso, Texas ton 14.00 - —
Farnams, Mass ton 14.00 - —
Gibsonburg, Ohio ton 12.50 - —
Hannibal, Mo ton 10.00 - —
Keystone, Ala ton 10.25 - —
Kimballton, Va ton 10.25 - —
Knoxville, Tenn ton 10.50 - —
Lee, Mass ton 12.50 - —
Lewisburg, Ohio ton 10.00 - —
Limedale, Ark ton 10.00 - —
Los Angeles, Cal ton 25.10 - 26.84
Marble Cliff, Ohio ton 10.00 - —
Martinsburg, W. Va ton 11.00 - —
Mosher, Mo. ton 10.75 - —
Nelson, Ariz ton 14.50 - 23.65
Quincy, Ill ton 10.00 - 13.00
Reddick, Fla ton 13.50 - —
Scotrock, Ala ton 10.25 - —
Springfield, Mo ton 12.25 - —
Winooski, Vt ton 15.50 - —
Woodville, Ohio ton 11.50 - —
York, Pa ton 15.50 - —
Hydrated, paper bags, Adams, Mass ton 15.50 - —
Annville, Pa ton 14.50 - —
Austin, Texas ton 13.00 - —
Bellefonte, Pa ton 14.50 - —
Buffalo, N. Y ton 16.00 - —
Cedar Hollow, Pa ton 14.50 - —
Chicago, Ill ton 15.00 - —
Duluth, Minn ton 14.00 - —
El Paso, Texas ton 17.50 - —
Engle, W Va ton 14.50 - —
Farnams, Mass ton 14.00 - —
Gibsonburg, Ohio ton 16.50 - —
Hannibal, Mo ton 12.00 - —
Keystone, Ala ton 13.50 - —
Kimballton, Va ton 13.50 - —
Knoxville Tenn ton 13.00 - —
Lee, Mass ton 15.50 - —
Lewisburg, Ohio ton 14.00 - —
Limedale, Ark ton 12.00 - —
Marble Cliff, Ohio ton 13.50 - —
McNeil, Tex ton 13.00 - —
Lime, hydrated, paper bags, Menominee, Mich. ton 14.00 - —
Mosher, Mo. ton 13.00 - —
North Tazewell, Va. ton 12.75 - —
Quincy, Ill ton 10.00 -12.00
Reddick, Fla ton 16.00 - —
Scotrock, Ala ton 13.50 - —
Springfield, Mo ton 12.25 - —
Winooski, Vt ton 15.50 - —
Woodville, Ohio ton 14.50 - —
York, Pa ton 14.50 - —
Spray, paper bgs., Adams, Mass. ton 17.00 - —
Annville, Pa ton 17.00 - —
Austin, Texas ton 13.00 - —
Bellefonte, Pa ton 17.50 - —
Carey, Ohio ton 11.00 - —
Duluth, Minn ton 15.00 - —
Engle, W Va ton 14.50 - —
Farnams, Mass ton 14.00 - —
Gibsonburg, Ohio ton 16.50 - —
Keystone, Ala ton 13.50 - —
Kimballton, Va ton 13.50 - —
Lee, Mass ton 17.00 - —
Lewisburg, Ohio ton 16.00 - —
Marble Cliff, Ohio ton 16.00 - —
McNeil, Tex ton 16.00 - —
Meneminee, Mich ton 14.00 - —
Mosher, Mo. ton 13.00 - —
North Tazewell, Va. ton 12.75 - —
Reddick, Fla ton 16.00 - —
Rockland, Me ton 10.00 - —
Springfield, Mo ton 12.25 - —
Scotrock, Ala ton 13.50 - —
Winooski, Vt ton 17.00 - —
Woodville, Ohio ton 16.50 - —
York, Pa ton 15.50 - —
Lime salts (see Calcium).
Lime ammonia nitrogen, 20.5% N (see Ammonium nitrate with dolomite).
Limestone grd., bgs. works ton 3.50 4.00
ex lignaloe wood, dms lb. 6.75 7.10
Linalyl acetate, ex bois de rose, 90-92%, dms lb. 5.45 - 5.95
96-98%, dms lb. 6.05 - 7.10
ex petitgrain, bots lb. 4.35 - 5.05
Lindane, 25% formulation, dealers, cns., works lb. 2.20 - —
dms., dealers, dms lb. 2.10 - —
99%, tech., dealers, dms., works. lb. 2.75 - 3.35
Linden flowers with leaves, bls lb. .34 - .35
without leaves, bls lb. 40 - 41
Linalool, ex bois de rose, dms lb. 5.35 - 5.90
Linseed meal, expeller, 36% bulk, Midwest, mills ton 73.00 -74.00
extracted, 36%, same basis ton 69.00 -70.00
Litharge, com'l, powd., bbls., c.l., ship't point, frt. alld. lb. .15¼ - —
l.c.l., same basis lb. .16¼ - —
Lithium benzoate dms lb. 1.65 1.67
Bromide, NF bbls., works, frt. equald lb. 2.10 2.75
Carbonate, tech., dms lb. .80 - 1.10
Chloride, cryst., dms lb. .95 - 1.25
Citrate, NF, bbls., dms., kgs lb 1.05 1.40
Fluoride, bbls lb 1.85 2.00
Hydride powd., dms., works lb. 12.00 -14.00
Hydroxide, monohydrate, dms lb. .91 - 1.05
Salicylate, dms lb. 1.60 1.70
Lithopone, ordinary, bgs., c.l., dlvd lb. .07½ - —
l.c.l., dlvd. lb. .08¼ - .08½
titanated (high-strength), bgs., c.l., dlvd lb. .10 - —
l.c.l., dlvd lb. .11 - —
Lithopone prices, Pacific Coast, 1c. per lb. higher.
Liverwort leaves, bls lb. .65 - .66
Lobelia herb, bls lb. .38 - .40
Leaves, NF lb. 75 - 76
Loheline sulphate, bots., works oz. 33.00 -34.00
Logwood extract, crystals, No. 1, bbls., l.c.l lb. .41 - —
No. 2, bbls., l.c.l lb. .39 - —
liquid, No. 1, bbls., l.c.l lb. .20 - —
No. 2, bbls., l.c.l lb. .19 - —
No. 3, bbls., l.c.l lb. .16½ - —
solid, No. 1 lb. .35 - —
Lovage root, imported, bls lb. .65 - .75
Lupulin, tins lb 1.95 - 2.00
Lycopodium cs lb. 1.40 - 1.60
Lysine hydrochloride, dextro-laevo, bots kilo 145.00 -149.00

M

Mace, Siauw, No. 1, bls lb. 1.05 - —
West Indian, No. 1, bls lb. .86 - .88
broken, cs lb. 70 - 72
Magnesia, calcined, tech., ctns. works lb. .32 - .34¼
synth., rubber grade, ctns., works lb. .31 - —
USP, light, ctns lb. .34 - .36
heavy, bbls. lb. .36 - .38
Magnesite, chemical grade, bgs., c.l. works, frt equald ton 72.50 - —
dead-burnt, standard grain, bulk, c.l., Chewalah, Wash ton 36.30 - —
Magnesium bromide, jars lb. .90 1.00
Carbonate, tech., bgs., c.l., frt. equald lb. .09¼ - —
l.c.l., frt alld lb. .10½ - —
bbls., c.l., frt. equald lb. .10¾ - —
l.c.l., frt. alld lb. .11¾ - —
kgs c.l., frt. equald lb. .12 - —
l.c.l., frt. alld lb. .13 - —

... for better coupling

IT WAS AN ADAGE with the ancients that oil and water never mix. But, long since, good coupling agents have been developed. Shell Chemical hexylene glycol, for example, effectively couples many such immiscible materials.

That's one reason why it's used in soluble cutting oils, automotive brake fluids and dry cleaning solutions . . . where *stability* is imperative.

Hexylene glycol makes an excellent penetrant in duplicator fluids, vat-dye pastes and printing inks. It is also a superior dispersant and wetting agent in polishes, cleaners and many chemical specialties.

In these applications, hexylene glycol proves to be a low-cost agent, as compared with other commonly used couplers. Find out how hexylene glycol can help you. A letterhead request will bring you a 32-page booklet of technical data.

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Magnesium carbonate, USP—Methylethylketone

Magnesium carbonate, USP, bgs., c.l., frt. equald. lb. 11¼- —
l.c.l., frt. alld ..... lb. .12¼- —
bbls., c.l., frt. equald..... lb. .11¾- —
l.c.l., frt. alld ..... lb. .12¾- —
kgs., c.l., frt equald..... lb. .13 - —
l.c.l., frt. alld ..... lb. .14 - —

Magnesium carbonate is quoted frt. alld. to N. J. except to Atlantic, Burlington, Cape May, Cumberland, Gloustershire, Ocean and Salem counties, and to Phila county. Pa. Frt equald with N. Y. C. on all other destinations.

Chloride, anhyd., lump., 95-98%, drums, c.l., works, frt. equald lb. .12¾- —
l.c.l., same basis lb .14 - .15
powd., bbls., works .... ton.50 00 - —
hydrous, flake, dms., l.c.l., works ton.49.00 -51.00
Gluconate, dms., cns ..... lb. 1.30 - 1.37
Glycerophosphate, dms., works lb. 5.10 5.20
Hydroxide, NF, medicinals, bbls., dms., kgs lb. .26½- .30
Hypophosphite, dms ..... lb. 1.60 - —
Laurate, bbls ..... lb. .46 - .47
Metal, 99.8% ingots, cs., works.lb. .27 - —
sticks, cs., works, frt. alld. on carlots..lb. .45 - —
Oleate, fused bbls ..... lb. .31 - —
Oxide (see Magnesia calcined).
Peroxide, 15%, dms. works .. lb 1.00 - 1.05
Phosphate, tribasic, NF, bbls. lb. .75 - —
Silicate (see Talc).
Silicofluoride, bbls., works.....lb. .09 - .10
Sulphate (see Epsom salt).
Stearate, ctns., cs.....lb. .38 - —
ton lots.....lb. .39 - —
less ton lots.....lb. .40 - —

Magnesium trisilicate, USP, dms., 5,000-lb. lots..lb. .38 - —
1,000-lb. lots ..... lb. .40 - —
100-lb lots ..... lb. .45 - —
Bulky and super grades of magnesium trisilicate, 7c. per lb. higher.

Maleic anhydride, dms., c.l., dlvd. E. of Rockies lb. .37 - —
l.c.l., dlvd. E. of Rockies.. lb. .38 - —
Prices on maleic anhydride W of Rockies, 1½c. higher.

Malva flowers, black, bls..... lb. .90 Nom.
blue, bls..... lb. 1.65 - 2.00
Leaves, bls ..... lb. .35 - .38
Mandrake root, bls ..... lb. .29 - .30
Manganese acetate, bbls, dlvd lb. .32½- —
Arsenate, bgs ..... lb. .16 - —
Borate, tech., bbls ..... lb. .24 - —
Carbonate bbls., works..... lb. .21 - —
Chloride anhyd. dms., works lb. .20 - .22
Dioxide, African 84-87%, 40,000 to 99,999-lb lots, paper bgs., gross for net, works. ton.88.00 - —
paper-lined burlap bgs., works..ton.91.50 - —
dms., works ..... ton.94.00 - —
Prices for manganese dioxide in 10,000 to 40,000-lb. lots, $3 per ton higher.
Gluconate, dms., cns ..... lb. 1.86 - 1.93
Glycerophosphate, NF, fib. dms.lb. 4.70 - 4.80
Hydrate, bbls., dlvd ..... lb. .33¼- —
Hypophosphite, NF, dms ..... lb. 2.00 - —
Linoleate, liquid, 4.35% Mn., dms. lb. .30½- —
solid, precip., 8.2% Mn., bbls lb. .33½- —
Metal, cs., dlvd. East ..... lb. .30 - .32
Naphthenate, liquid 6% Mn., dms., frt. alld. lb. .25 - —

Manganese, oleate, precip., bbls..lb. .33½- —
Resinate, fused, 3½% Mn., dms.lb. .21¾- —
precip., dms ..... lb. .24½- —
Stearate, ctns., c.l. ..... lb. .33 - —
ton lots ..... lb. .39 - —
less ton lots ..... lb. .40 - —
Sulphate, fertilizer grade, 65%, bgs., c.l., dlvd. S. E. ton.75.50 - —
l.c.l., dlvd., S. E. ton.82.50 - —
feed grade, 75%, bgs., c.l., dlvd. S.E. ton.87.50 - —
l.c.l., dlvd. S. E. ton.94.50 - —
Tallate, 6%, dms ..... lb. .21¾- —
Mangrove bark, E. Africa, 38% tannin, c.l., ex dock..ton.79.00 -80.00
So. American, 30% tannin, c.l., ex dock..ton.58.50 -60.00
Manna, flake, large, cs..... lb. 1.25 - 1.30
small, cs..... lb. .80 - .95
Mannitol, cont'l. dms., works....lb. .40 - .43
reagent, 50-lb dms., works....lb. .85 - —
Marjoram, Bohemian, bls..... lb. .22 - .22½
Chilean, bls ..... lb. .21 - .22
French, bls. ..... lb. .23 - .28½
Peruvian, bls. ..... lb. .19½- .20
Matico leaves, ols..... lb. .25 - .35
Melamine, bgs., ton lots, works...lb. .33 - —
500 to 2,000-lb lots, works...lb. .33½- —
less than 500-lb. lots, works...lb. .38½- —
Menadione, USP, bots ..... gram. .06 - .06½
Menthol, natural, USP, Brazilian, cs. lb. 6.00 - —
Japanese, cs. ..... lb. 7.00 - 7.25
synthetic, USP, racemic, cns...lb. 4.95 - —
Menthyl salicylate, tins ..... lb. 4.00 - 4.25
Mercaptobenzothiazole, bgs., fib. dms., ton lots, works, frt. alld. lb. .34 - .35
less ton lots, same basis. lb. .36 - .37
Mercaptobenzothiazyl disulphide, bgs., fib. dms., ton lots, works, frt. alld. lb. .42 - .42½
less ton lots, same basis....lb. .44 - .45½

Mercury, ammoniated (see White precipitated).
Bichloride (see Corrosive sublimate).
Chloride (see Calomel).
Cyanide, NF VIII, powd., fib. dms. lb. 5.29 - —
Iodide, red, NF, fib. dms..... lb 6.22 - —
yellow, NF, fib. dms ..... lb 6.47 - —
Metal (see Quicksilver)
Oxide, red, NF (see Red precipitate), tech. (see Red, mercury oxide).
yellow, tech (see Yellow, mercury oxide).
USP, fib. dms..... lb. 4.64 - —
Mesityl oxide, dms., c.l., dlvd... lb. .13¼- .14¼
l.c.l., dlvd ..... lb. .14 - .15
tanks, dlvd ..... lb. .11½- .12½
Metaldehyde, dms., works ..... lb. .85 - 1.25
Meta-aminophenol, distilled, dms., ton lots lb 2.05 - —
less than ton lots..... lb 2.50 - —
Metachloroanilin, dms., c.l., frt. equald. lb. .75 - —
l.c.l., same basis..... lb. .80 - —
Metacresol, 98%, dms., c.l., works lb. 73½- —
l.c.l., works ..... lb. 74½- —
Metanitroanilin, dms., frt. alld lb. 1.05 - —
Metanitroparatoluidin, bbls..... lb. 1.54 - —
Metaphenylenediamine, kgs. frt. alld. lb. .90 - —
Metatoluidine, bbls., c.l., works, frt. alld lb. .78 - —
l.c.l., same basis ..... lb. .80 - —
tankcars, same basis..... lb. .76 - —
Metatolylenediamine, fib. dms., frt. alld lb. .94 - 1.00
Methanol, natural, denaturing grade, dms., c.l., frt. alld gal. .78 - —
l.c.l., frt alld ..... gal. .79 - —
tanks, frt. alld ..... gal. .70 - —

Prices on natural methanol W. of Miss., 3c. higher.

synthetic, Zone 1, dms., c.l., dlvd. lb. .44 - .45½
l.c.l., dlvd. ..... gal. .49 - .50½
tanks, dlvd. ..... gal. .32 - .33½
Zone 2, dms., c.l., dlvd.... gal. .49½- —
l.c.l., dlvd. within established whse. delivery zone..gal. .54 - —
tanks, dlvd. ..... gal. .35½- —

Synthetic methanol zones are:—Zone 1 is all continental U. S., E. of eastern boundaries of Ariz., Idaho and Utah. Zone 2 is remainder of the U. S. west of above state boundaries, comprising Ariz., Calif., Idaho, Nev., Ore., Utah and Wash.

Methenamine (see Hexamethylenetetramine)
Methionine, dextro-laevo, fib. dms., frt. alld. 50-lb or more lb. 4.55 - —
feed grade, 98%, fib., dms., same basis lb. 3.00 - —
97%, fib. dms., same basis lb. 2.97 - —
Methoxychlor, 50% wettable powder, dealers, dms., cs., frt. alld lb. .61 - .64
Methyl abietate, non-ret. dms., c.l., dlvd., zone 1 lb. .19¼- —
l.c.l., same basis ..... lb. .20 - —
hydrogenated non-ret, dms., c.l., dlvd., zone 1 lb. .20 - —
l.c.l., same basis..... lb. .20½- —

Zone 1 includes New England and Middle Atlantic states, Va., W. Va., N. C., Ohio, Ky., Mich., Ind., Ill., Wis., St. Paul and Minneapolis, Minn.; St. Louis, Mo.; Miss., Ala., Ga., Fla., S. C. and Tenn.

Acetone, natural, dms., c.l., E. of Miss., frt. alld gal. .57 - —
l.c.l., same basis .... gal. .68 - —
tanks, same basis ..... gal. .45 - —
Natural methyl acetone prices W. of Miss. 3½c. per gal. higher
synthetic, dms., c.l., dlvd. E. gal. .66½- —
l.c.l., dlvd. E. ..... gal. .72¼- —
tanks, dlvd. E..... gal. .54½- —

Synthetic methyl acetone East territory is all States East of and including Colo., Mont., N. Mex. and Wyo. West territory is all States West of those four.

Acrylate dms., c.l. and truckload works lb. .43½- —
less than truckload works.lb. .44 - —
tanks, works ..... lb. .42 - —
Alcohol (see Methanol),
Anthranilate, cns. ..... lb. 2.35 - 2.40
extra, cns..... lb. 2.65 - 4.40
Benzoate, cns., dms..... lb. .53 - .65
Bromide, jobbers, cyls., various sizes, works..lb. .47 - .61
Chloride, indust., cyl., works..lb. .18 - —
tanks, multi-unit works....lb. .14 - —
single-unit, works ..... lb. .11½- —
refrigerator mfrs., cyls., dlvd.. lb. .39 - .48
other consumers or service men, cyls. dlvd lb. .486 - —
Cinnamate, cns..... lb. 1.43 - 1.80
Cyclohexanol, dms., c.l., works lb. .34½- —
l.c.l., works..... lb. .35 - —
tanks, works ..... lb. .33 - —
Formate refd., dms ..... lb. .35 - .40
tech., non-ret. dms., any quantity, works lb. .08 - —
tanks, works ..... lb. .07 - —
Lactate, dms., l.c.l., works... lb. .35 - —
Methacrylate, dms., c.l., and truckload, frt. equald., with Belle., W. Va., and Arlington, N. J. lb. .36½- —
less than truckload, same basis..lb. .37 - —
tanks, same basis..... lb. .35 - —
Parahydroxybenzoate, USP, bots. lb. 2.10 - 2.20
fib. dms. ..... lb. 1.90 - 2.00
Roseanilin chloride, NF, fib. dms. lb. 5.40 - —
Salicylate, USP, dms., 500 lbs. lb. .50 - —
cns., 50 lbs..... lb. .55 - —
Testosterone, USP, 100 gms..gm. .98 - —
Methylal, refined, 97%, dms., c.l., works..lb. .12¾- —
l.c.l., works..... lb. .13½- —
tanks, works..... lb. .11 - —
tech., 92%, dms., c.l., works. gal. .85 - —
l.c.l., works..... gal. .90 - —
tanks, works..... gal. .70 - —
Methylamyl acetate, dms., c.l., dlvd. E..lb. .14¾- —
l.c.l., dlvd. E..... lb. .15½- —
tanks, dlvd. E..... lb. .13 - —
Ketone, dms., works..... lb. 1.05 - —
Methylcellulose, special, vis., (1,500-4,000 cps.) 50-lb. bgs., c.l., works..lb. .78 - —
2,000 lbs., and more, same basis..lb. .80 - —
smaller lots, frt. alld. on 100 lbs. .85 - .97
standard vis. (15-400 cps.), 50-lb. bgs., c.l., alld. lb. .66 - —
2,000 lbs. and more, same basis..lb. .68 - —
smaller lots, frt. alld. on 100 lbs. lb. .72 - .85
Methylene blue, 100-lb. lots, kgs., frt. adjusted. lb. 3.25 - 3.60
smaller lots, kgs., same basis lb. 3.40 - 3.60
Chloride, industrial, dms., c.l., dlvd. E. lb. .13½- —
Methylethylketone, dms., c.l., dlvd. lb. .12¾- .13¾
l.c.l., dlvd. ..... lb. .13½- .14½
tanks, dlvd. ..... lb. .11 - .13

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Methylethylpyridin, dms., c.l., works, lb. .47½- —
l.c.l. works lb. .48 - —
tanks, works lb. .46 - —
Methylheptincarbonate, bots lb.35.00 -45.00
Methylionone, A, cns lb. 6.55 - 8.80
D, cns lb. 7.50 - 9.55
prime, cns lb. 4.55 - 6.40
Methylisobutyl carbinol (See Carbinol methylisobutyl).
Ketone, dms., c.l., divd lb. .14¾- —
l.c.l. divd lb. .15½- —
tanks, divd lb. .13 - —
Methylnaphthyl, ketone, cans lb. 3.00 - 3.15
Methylparaben (see Methyl parahydroxybenzoate).
Methylpentanediol (see Hexyleneglycol).
Methylphenylpyrazolone, 250-lb dms., divd lb. 1.60 - 1.70
less than 250 lbs., dms., divd lb. 1.80 - 1.90
Methylthionine chloride (see Methylene blue).
Mica, dry-grd., biotite, extra fine, bgs., c.l., works, frt. alld. E. lb. .05¾- .06¼
l.c.l., ex-whse. or frt. alld. E. lb. .06½- .07
paint, plastic, 100 mesh, bgs., c.l., works lb. .04¼- —
roofing, 20 to 80 mesh, works lb. .03 - .04
white, extra, fine, bgs., c.l., works, frt. alld. E. lb. .07¼- .07¾
l.c.l. ex whse or frt alld. E. lb. .08 - .08½
wet-grd., biotite, bgs., c.l., works, frt. alld., E. lb. .05¾- .06¼
l.c.l., ex whse or frt alld. E. lb. .06½- .07
paint or lacq. bgs. c.l., works, frt. alld., E. lb. .07¼- .07¾
l.c.l., ex whse. or frt. alld. E. lb. .08 - .08½
rubber, bgs., c.l., works, frt. alld. E. lb. .07 - .07½
l.c.l., ex whse. or frt alld. E. lb. .07¾- .08¼
wallpaper, bgs., c.l., works, frt. alld. E. lb. .07¼- .07¾
l.c.l., ex whse. or frt alld. E. lb. .08 - .08½
Mica, wet-grd., W. of Miss. R., ½c. higher. W of Rockies, 1c. higher.
Milk powder, skimmed, roller, bbls., c.l. lb. .13 - .15¼
spray, bbls., c.l lb. .15 - .17
whole, roller, bbls., c.l lb. No prices.
spray bbls., c.l lb. .33 - .38¼
Sugar, crude, bgs., c.l., works lb. .18 - —
edible, bgs., works, 30,000-lb. lots, works lb. .24 - —
2,000-lb. lots, works lb. .24¾- —
200-1,800-lb lots, works lb. .25¼- —
Edible milk sugar in fib. dms., 1c. higher.
USP, fib. dms., 30,000-lb. lots, works lb. .29 - —
2,000-lb. lots, works lb. .29¾- —
200-1,800-lb lots, works lb. .30¼- —
USP milk sugar in bgs. 1c. lower
Mineral spirits (see Petroleum mineral spirits).
Molasses, blackstrap feed grade, tanks, New Orleans gal. .11 - —
New York gal. .12 - —
Molybdenum metal, 85% Mo. powd., kgs lb. 3.00 Nom.
Trioxide, pure, kgs., works, basis Mo. content lb. 1.35 - —
technical, kgs., works, basis Mo. content lb. 1.13 - 1.14
Monobutylamine, dms., c.l., E. of Rockies lb. .54¾- —
l.c.l., same basis lb. 55¾- —
tanks, same basis lb. .53 - —
Monochlorobenzene dms., c.l., frt. alld. or divd. E. lb. .10½- .11½
l.c.l., same basis lb. .11½- .12½
tanks, same basis lb. .09 - .10
Monochlorobenzene prices in the West, 1¾c. higher.
Monoethanolamine dms. c.l. divd. E. lb. .29¾- —
l.c.l., same basis lb. .30¾- —
tanks, same basis lb. .28 - —
Monoethylaipnanaphthylamine, dms., works lb. .88 - —
Monoethylamine, 70% contained amine, dms., c.l., divd. E. lb. .32 - —
l.c.l., divd. E. lb. .33 - —
tanks, divd. E. lb. .30¼- —
Monoethylanilin, dms., c.l., frt. alld. lb. .51 - .57
l.c.l., frt. alld lb. .52 - .58
tanks, frt. alld lb. .50 - .56
Monoethylorthotoluidin, bbls lb. .80 - —
Monoisopropylamine, dms., c.l., divd. lb. .29½- —
l.c.l., same basis lb. .30½- —
tanks, same basis lb. .28½- —
Monomethylamine, 25%-40%, dms., c.l., works, basis 100%, lb. .35 - —
l.c.l., same basis lb. .35½- .36
tanks, same basis lb. .31 - —
Monosodium fluoroacetate (see Sodium fluoroacetate monobasic), Glutamate (see Sodium glutamate, monobasic Phosphate (see Sodium phosphate monobasic).
Mono-tertiary-butylmetacresol, dms., c.l., works lb. .49 - —
l.c.l., works lb. .50 - —
tanks, works lb. .48 - —
Morphine, cns oz.12.40 -12.60
Acetate, anhyd., cns oz. 9.95 -10.00
Hydrobromide, cns oz. 9.90 - 9.95
Hydrochloride, NF, cns oz. 9.90 - 9.93
Sulphate, USP, cns oz. 9.90 -10.05
Morpholine dms., c.l., divd. E. lb. .54¾- —
l.c.l., divd. E. lb. .55¾- —
tanks, divd. E. lb. .53 - —
Mullein flowers, cs lb. 2.00 - 2.03
Leaves, bls lb. .18 - .21
Musk, natural, Tonquin grains, bots. oz.40.00 -55.00
synthetic, ambrette, 100-lb. lots, fib. dms lb. 5.35 - —
25-lb. lots, cns lb. 5.40 - —
5-lb. lots, cns lb. 5.55 - —
ketone, 100-lb. lots, fib. dms. lb. 5.30 - —
25-lb. lots, cns lb. 5.35 - —
5-lb. lots, cns lb. 5.50 - —
xylol, 100-lb. lots, fib. dms. lb. 1.50 - —
25-lb. lots, cns lb. 1.55 - —
5-lb. lots, cns lb. 1.70 - —
Musk root, bls lb. 1.60 - 1.65
Mustard seed, Calif. brown bgs., f.o.b. source lb. .12 - —
Danish, yellow, bgs. lb. .10½- .11½
Dutch, yellow, bgs lb. .11 - .11½
English, yellow, bgs. lb. .11½- .12
German, yellow, bgs. lb. .10 - .10¼
Japanese yellow, bgs lb. .10 - .10¼
Montana, brown, bgs., f.o.b. source lb. .08 - —
oriental, bgs., source lb. .05¼- —
yellow, bgs., source lb. .09 - —
Myrobalans, #1, ord. bgs., ex dock, ton.47.00 - —
assorted, ex dock ton.48.50 - —
crushed, bgs., ex dock ton.65.00 -66.00
Extract, Indian, solid, 52% tannin, ex dock plus duty lb. .07¼- —

N

Naphtha, painters (see Petroleum naphtha V. M. & P.).
Solvent (see S).
Naphthalene, dom., crude, 74° tanks, frt. equald lb. .0625- —
78°, dms., c.l., same basis lb. .0765- —
l.c.l., same basis lb. .0790- —
tanks, same basis lb. .0675- —
refined, industrial, bbls., c.l., frt. equald lb. .11¾- —
bgs., c.l., same basis lb. .11¼- —
tanks, same basis lb. .10¾- —
balls, flakes, wholesalers, jobbers, bbls., c.l., same basis, lb. .14½- —
cs. 50 lbs., c.l., same basis lb. .14¾- —
1-lb. pkgs. c.l., same basis lb. .17 - —
imported, crude, 78° large lots, lb. .0350- —
Neocinchophen, USP, dms., frt. allowed lb. 7.00 - 8.00
Neomycin, fib, dms., 100-kilo lots, basis activity gm. .60 - —
1-kilo lots gm. 1.20 - —
Nepheline syenite, glass, 24 mesh, bulk, works ton.14.25 - —
pottery, 200 mesh, bulk, works, N Y ton.18.25 - —
Nepheline syenite in bgs., $3 per ton higher than bulk.
Nerolin, cns lb. 2.25 - 2.85
Niacin (see Acid nicotinic).
Niacinamide (see Nicotinamide).
Nickel acetate, bbls., dlvd lb. .608 - .613
Carbonate, bbls., dlvd lb. .6730- .6780
Chloride, bbls., dlvd lb. .3485- .3535
Cyanide, bots, dms lb. 4.50 - —
Formate, bbls., ton lots, frt. alld. lb. .5955- .6055
Nickel metal, electro cathodes, cs., works lb. .60 - —
Nitrate, bbls., works lb. .3320- .3420
Oxide, black, bbls lb. .5595- —
Sulphate bgs., c.l., dlvd lb. .27 - —
l.c.l., dlvd lb. .27½- —
Nicotinamide, USP, dms., frt. adjusted kilo.12.00 -12.30
Hydrochloride, dms, frt. adjusted kilo.11.50 -11.80
Nicotine sulphate, 40%, 50-lb. dms., dealers, frt. alld over 70 lbs. dm.40.40 - —
10-lb tins, dealers, frt. alld. on cases of 6 tin.10.85 - —
Niger seed, bgs., afloat lb. .11¼- .11½
Nikethamide, cbys lb. 7.50 8.00
Nitrobenzene, dbl. dist., dms., c.l., frt. alld lb. .10½- .11½
l.c.l., frt. alld lb. .11½- .12½
tanks, frt alld lb. .09½- .10½
Nitrocellulose, ester-soluble, 30-35 cps., ¼, ½, ¾, 5-6, 15-20, 30-40, 60-80, 125-175, secs., bbls. c.l., works lb. .33 - —
l.c.l., same basis lb. .34 - .36
18-25 cps. bbls. c.l. lb. .35 - —
l.c.l., same basis lb. .36 - .38
250-400, 600-1,000 secs., bbls., same basis lb. .42 - —
l.c.l. same basis lb. .43 - .45
spirit-soluble 30-35 cps., ¼, ½, sec., bbls., c.l., same basis, lb. .45 - —
l.c.l. same basis lb. .46 - .48
5-6, 40-60 secs., bbls., c.l., same basis lb. .44 - —
l.c.l. same basis lb. .45 - .47
Denatured alcohol used in the manufacture of nitrocellulose is charged extra. Drums extra but returnable.

Methylethylpyridin—Octyl Methacrylate

Nitroethane, dms., divd. E. of Rockies, lb. .25 - —
Nitrogen solution, tanks, works, 37-40.8% N, basis 100% ton.120.00 -123.00
Nitrogenous process tankage, bulk, works unit-ton. 5.00 - —
Sewage sludge, bulk, works unit-ton. 3.75 - .50
Nitromethane, dms., l.c.l., divd. E. of Rockies lb. .25 - —
Nitropropane 1, dms., divd E. of Rockies lb. .23¼- —
2, dms. divd E. of Rockies lb. .25 - —
Nonylphenol, dms., c.l., works lb. .33¼- —
l.c.l., works lb. .33¾- —
tanks, works lb. .32¼- —
Nutgalls, Aleppo, bgs lb. .38 - —
Chinese, bgs lb. .36 Nom.
Istrian, bgs lb. .31 - —
Nutmeg, East Indian, whole, cs. lb. .34 - .34½
shrivels, bgs lb. .33 - .33½
West Indian, bgs lb. .26 - .26½
Nux vomica, bls lb. .08 - .10
powdered, bbls., bxs lb. .12 - .14

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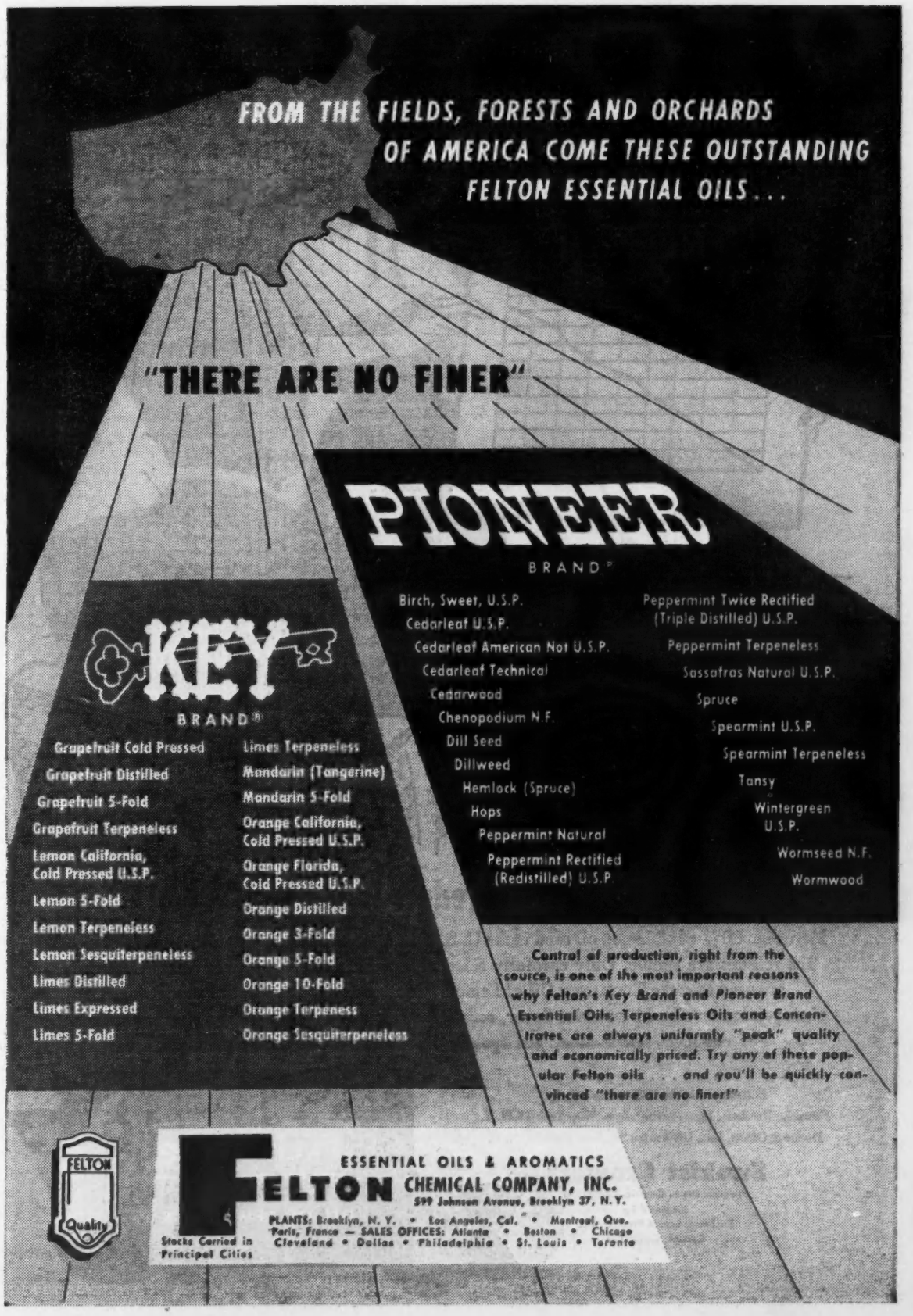
Octane, 100°-140°C., industrial grade, group 3, dms., c.l gal. .19 - —
l.c.l gal. .21 - .60
tanks gal. .15¼- —
100° C. b.r., Bayonne, N. J., tanks, gal. .18 - —
Octanol, normal, tech., dms., c.l., divd. lb. .35 - —
l.c.l., divd lb. .37 - —
tanks, divd lb. .32½- —
Octyl methacrylate, normal, dms., less than truckload, works, lb. .83 - —



Octylphenol—Oil, Soybean

Octylphenol, dms., c.l., works lb. .26¾- —
l.c.l., works lb. .27¼- —
tanks, works lb. .25¾- —

(Essential oils prices listed below are f.o.b. New York, with differences between high and low quotations due to differences in quantity, quality or in individual suppliers' views.)

Oil, abies siberica, cns lb. 1.90 - 2.50
Almond, artificial, bitter (see Benzaldehyde)
natural, bitter, F.P.A., bots lb. 2.75 - 3.40
NF bots lb. 2.85 - 3.25
sweet, USP, dms., cns lb .55 .90
Allspice (see Oil, pimento).
Amyris, dms lb. 1.65 - 1.90
Angelica root, bots lb.90.00 -120.00
seed, bots lb.55.00 -95.00
Anilin (see A).
Anise, USP, dms lb. 1.85 - 2.85
Apricot, kernel, USP, dms lb. .34 - .45
Avocado, cns., dms lb. No prices.
Bahassu, crude, tanks lb. No stocks
Bay, NF, Puerto Rican, 50-55%, cns lb. 1.55 - 2.20
55-60% cns lb 1.65 2.10
West Indian, 50-55%, cns., dms lb. 1.45 - 2.25
Bergamot, artif., cns lb. 2.90 - 5.00
natural, NF, Italian, cns lb.11.25 -12.00
Birchtar, crude, cns lb. 1.75 - 2.10
rectified, NF, cns lb. 2.50 - —
Bois de Rose, Brazil, dms lb. 3.50 - 4.00
Mexican (see Oil, lignaloe wood).
Bone, dms., works lb. .65 - .70
Cajeput, redist., USP, cns lb. 1.60 - 2.85
tech., cns. lb. 2.25 - —
Calamus, cns lb.10.00 -20.00
Camphor, sassafrassy, dms lb. .26 - .40
white, dms lb. .36 - .40
Oil, cananga, native, cns lb.10.00 -10.75
rectified, cns lb.11.00 -13.75
Capsicum (see Capsicum oleoresin).
Caraway, NF, cns. lb. 2.50 - 3.75
Cardamom, NF, bots lb.38.00 -50.00
Cassia, USP, cns., dms lb. 5.25 - 7.50
Castor, blown, dms., c.l. lb. .2800- —
l.c.l. lb. .2850- —
dehydrated, bodied, dms., c.l., lb. .3110- —
l.c.l. lb. .3160- —
tanks lb. .3010- —
unbodied, dms., c.l. lb. .2960- —
l.c.l. lb. .3010- —
tanks lb. .2860- —
hydrogenated, bgs. lb. .3260- .3380
No. 1, Brazilian, tanks lb. .22¾- .23
USP, dms., c.l. lb. .2600- —
l.c.l. lb. .2650- —
tanks lb. .2500- —
refined and deodorized, dms., c.l. lb. .2750- —
l.c.l. lb. .2800- —
tanks lb. .2650- —
No. 3, tech., dms., c.l. lb. .2575- —
l.c.l. lb. .2625- —
tanks lb. .2475- —
sulphonated, 50% (48% fat), dms., l.c.l. lb .16½- .17
75% (60-62% fat), dms., l.c.l. lb .23 - .23¼
Cedarleaf, cns., dms lb. 2.10 - 3.00
Cedarwood, cns., dms lb. .45 - .75
Celeryseed, bots lb 16.50 -21.00
Chamomile, blue, Hungarian, bots lb.225.00 -260.00
Chaulmoogra, NF, cns, dms lb .55 .70
Chinawood (see Oil, tung)
Cinnamon bark, USP, bots lb.23.00 -60.00
leaf, Ceylon, bots lb. 1.40 - 3.25
Citronella, Ceylon, cns., dms lb. .50 - .90
Java, true, cns lb 1.10 1.90
Java type, cns lb. .45 - .95
Oil, clove, USP, from buds, cns., dms lb. 9.50 - 9.75
Coconut, crude, tanks, N. Y. lb. .21 - —
Pac. Coast lb. .20 - —
refined, Cochin type, tax incl., ret. dms., l.c.l lb. .27½- —
deodorized, tax incl., non-ret. dms., c.l. lb. .29¼- —
Cod, Newfoundland, dms lb. .09½- .10
Codliver, USP, dms gal. 1.55 - 1.65
Copaiba, cns lb 2.00 2.50
Coriander, USP, bots lb.18.00 -23.50
Corn, crude, tanks, works lb. .15½- —
foots (soapstock) acid, 93% tanks, N. Y. lb. .05¼ Nom.
raw, 50%, tanks, same basis. lb. .02¼ Nom.
refined, dms. lb. .20 - .20½
tanks lb. .18⅝- —
Costus, bots oz.12.50 -25.00
Cottonseed, crude, tanks, South-East lb. .15⅛ Nom.
Valley lb. .15 - —
Texas lb. .14⅝- —
foots (soapstock), acid, 95% tanks, N. Y lb. .03 Nom.
raw, 50%, tanks, same basis. lb. .01½- —
salad, dms. lb. .20¼- .20½
tanks lb. .18¾- —
Creosote (see Creosote, coaltar).
Croton, cns lb. 4.30 5.50
Crude (see Petroleum crude).
Cubeb, cns lb. 4.50 - 7.25
Cumin, bots lb. 4.25 - 6.00
Cypress, bots lb. 5.50 - —
Deeras (see D)
Dillseed, India, bots lb 2.80 - 4.25
Dillweed, domestic, bots., dms lb. 4.00 - 5.25
Dip (see D)
Erigeron cns lb. 6.50 - 7.50
Eucalyptus, NF, rectified, 70-80% dms lb. .70 - 1.15
80-90%, dms lb. .85 - 1.25
Fennel, sweet, USP, cns lb. 2.30 - 3.25
Oil, fir, Canada, cns lb. 2.65 - 3.10
Fish, refined, alkali, dms lb. .1410- —
kettle-bodied, dms lb. .1610- —
light-pressed, dms lb. .1260- —
tanks lb. .1100- —
Fishliver, crude, for feeds for concentrating, 4,000 to 12,000 A units per gm., dms., 1,000,000 units. .12 - .13¼
10,000 to 20,000 A units per gm., dms 1,000,000 units. .12 - .12½
25,000 to 35,000 A units per gm., dms 1,000,000 units. .12 - .12½
40,000 to 55,000 A units per gm. dms 1,000,000 units. .12 - .13
100,000 A units per gm., dms., 1,000,000 units. .12 - .15
200,000 A units per gm. dms. 1,000,000 units. .12 - .15
300,000 A units per gm., dms. 1,000,000 units. .12 - .15
400,000 A units per gm. dms. 1,000,000 units. .12 - .15
500,000 A units per gm. dms. 1,000,000 units. .12 - .15
Prices above are based on the USP XIV method of conversion. Merton Stubbs (corrected E x 19
Fusel (see F).
Garlic, pure, bots oz. 9.25 -11.50
Gaultheria (see Oil, wintergreen).
Geranium, Algerian, cns lb.12.00 -16.50
Bourbon, cns lb.10.85 -16.50
Turkish (see Oil, palmarosa).
Ginger, dist., bots lb.13.00 -14.00
Grapefruit, dms lb. 2.75 - 3.50
Grease, No 1, dms lb. .10¾- .11
extra, winter, strained, dms lb. .12 - .12½
prime, burning, dms lb. .13½- .14½
Guaiacwood, cns lb. 1.65 - 1.90
Hemlock cns lb. 2.10 2.50
Juniper berry, NF, VIII, bots lb. 2.75 - —
twice rectified, bots lb 3.00 - 7.00
Tar, NF (see Juniper tar).
Wood, tech., cns lb. .42 - .50
Lard (see Oil, grease).
Laurel, dms., cns lb. 9.75 -12.50
Lavandin, dms., cns lb. 2.15 - 2.75
Lavender, flower, USP, French, 30-32% ester, cns lb. 3.00 - 5.00
38-40% ester, cns lb. 5.25 - 7.25
40-42% ester, cns lb. 6.00 - 7.35
Spike, Spanish, cns lb. 1.55 - 1.85
Lemon, USP, Calif., cns., dms lb. 5.75 - 6.00
Messina, cns lb. 5.50 - 9.50
terpeneless, bots lb.32.00 -85.00
Lemongrass, cns., dms lb. 1.30 - 1.75
Lignaloe wood, Mexican, cns lb. 6.00 - 7.00
West Indian, cns lb. 6.25 - 8.25
expressed, West Indian, cns lb. 7.85 - 9.50
terpeneless, bots lb.45.00 -78.00
Linseed, raw, dms., c.l., N. Y. lb. .1750- —
l.c.l. lb. .1825- .1850
tankcars, f.o.b. Minneapolis lb. .1500- .1520
New York lb. .1625- .1645
tankwagon, N. Y. lb. .1655- .1675
Boiled, linseed oil, .006c. per lb. higher.
Mace, dist., cns., dms lb. 2.90 - 4.25
Mandarin, Floridian, dms lb. 3.00 - 5.35
Italian, cns lb. 6.50 - 8.50
Menhaden, crude, tanks, Balto. lb. .07½- —
Gulf ports lb. .07 - —
Mineral, white (see Oil, white, mineral)
Mirbane (see Nitrobenzene).
Mustard seed, nat., dms lb. .16 - .16¼
synthetic, cns., dms lb. 1.60 - 1.85
Neatsfoot, 15°, dms lb. .33 - .34
20°, dms. lb. .32 - .33
30° dms. lb. .30 - .31
Neroli, NF, French, bots lb.190.00 -250.00
petale, bots lb.40.00 -150.00
Nutmeg, USP dist., East Indian, cns., dms lb. 3.10 - 3.65
West Indian, cns., dms lb. 2.75 - 3.50
Ocotea cymbarum, dms lb. .58 - .90
Oiticica, liquid, dms lb. .25½- .26
tankcars lb. .24 —
Oleo, extra, dms lb. .11¼- .11½
Olibanum, bots lb. 5.50 - 7.50
extra fine, bots lb 8.00 - —
Olive, commercial, dms gal. 2.25 - —
edible, dms., duty paid gal. 2.60 - 2.65
foots, dms lb. .15 - .15½
Orange, sweet, dist., cns lb. .30 - .70
expressed, USP, Brazilian, cns., dms lb. No stocks.
Calif., cns lb. .75 - 1.00
Florida, cns lb. .70 - 1.00
Messina, cns lb. 3.50 - 4.50
West Indian, cns lb. 2.75 - 4.00
sesquiterpeneless, bots lb.135.00 -150.00
Origanum, Spanish, cns lb. 2.15 - 3.05
Palm, clarif., dms., spot lb. .1240- .14
Palmarosa, cns lb. 6.25 - 8.40
Palm kernel, in bond, tanks lb. .17 Nom.
Paraffin, pale, 100-110 vis., at 100°F tanks, East Coast refinery gal. .14 - —
Patchouli, dms lb. 7.25 - 8.25
Peach kernel, USP (see Oil, apricot kernel)
Peanut, crude, tanks, Southeast. lb. .26½ Nom.
refined, dms. lb. .31½ Nom.
tanks lb. .30 Nom.
Pennyroyal, USP, imported, cns. lb. 2.25 - 2.40
Peppermint, natural, dms lb. 5.50 - 6.75
redist., USP, dms lb. 5.75 - 7.75
Persic, USP (see Oil, apricot kernel)
Petitgrain, Paraguay, cns., dms. lb. 2.35 - 2.75
Pimento berry, NF, dms lb. 4.75 - 5.75
leaf, cns. lb. 2.65 - 3.00
Pine, dest., dist., dms., extra, c.l., works gal. .75½- —
l.c.l. gal. .76½- —
whse. gal. .95½- —
steam dist., dms., ex whse., N.Y.C. lb .127 .128
Pineneedle, Siberian (see Oil, abies siberica).
Putty, petroleum, dms., c.l., dlvd. lb. .11 - —
l.c.l., same basis lb. .12 - —
tanks, same basis lb. .10 - —
Rapeseed, tankcars lb. .16¾- —
Red (see Acid, oleic).
Rice, bran, clarif., dms lb. .15¼- .15½
crude, tanks, dlvd. E lb. .13 - .13¼
Rose, natural, Bulgarian, bots oz.50.00 -62.25
Rosemary, Spanish, tech., cns., dms lb. .60 - .75
USP, cns., dms lb. .80 - 1.00
Rue, bots lb. 2.25 - 2.50
Safflower, dms., c.l., Atlantic coast. lb. .16½- —
tanks, same basis lb. .15 - —
Sage, clary, bots lb.20.00 -25.00
Dalmatian, cns lb. 6.75 - 8.50
Spanish cns lb. .90 1.25
Sandalwood, NF, cns lb. 9.75 -10.50
Sardine, crude, tanks, Pac. coast. lb. No stocks.
Sassafras, artificial, dms lb. .50 - .70
natural Brazilian (See Oil, ocotea cymbarum).
domestic, USP, cns., dms lb. 1.90 - 2.25
Savin, cns lb. 2.75 —
Savory, cns lb. No stocks.
Sesame, retd., dms lb. .36 - .37
Shingle stain, tar distillate, dms., c.l., works lb. .33 - —
l.c.l., works lb. .35 - —
tanks, works lb. .23 - —
Snakeroot, Canada, cns lb.31.00 -33.00
Soybean, crude, tanks, mills lb. .13⅛- —
foots (soapstock), acid, 95% tanks, N. Y. lb. .05¼- —
raw, 50%, tanks, N. Y. lb. .02⅝- —
refined, alkali, dms., c.l. lb. .17¾- —
l.c.l. lb. .18¼- .18½
tanks lb. .16¼- —
clarified, dms., c.l. lb. .17¼- —
l.c.l. lb. .17¾- .18
tanks lb. .15¾- —
salad, dms lb. .18 - .18½
tanks lb. .16¾- —

The proof of the product is in the USAGE!

More than 80% of all lemon oil used in the U. S. is EXCHANGE Brand! An amazing endorsement! The reasons are simple. Only carefully selected lemons from the groves of sunny California are used to make EXCHANGE Oil of Lemon. This fine fruit, plus skillful processing, gives you lemon oil with superior flavor, consistent aroma and clarity with no cloud or sediment. For complete satisfaction, just specify EXCHANGE Oil of Lemon when you order.

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Sunkist Growers
Products Dept., Ontario, California
Produced by
Exchange Lemon Products Co.
Corona, California

Oil, spearmint, USP, dms. lb. 8.00 - 9.50
Sperm, bleached, winter, 45°, dms. lb. .1350- .14
tankcars lb. .1200- —
natural, winter 45° dms. lb. .1250- .13
tankcars lb. .1100- —
Spruce, cns., dms. lb. 2.10 - 2.75
Sweet birch, USP, Northern, cns. lb. 4.95 - 9.50
Southern, cns lb. 2.00 - 3.25
Tall, crude, tanks, works lb. .02¼- .02½
refined, dms., c.l., works lb. .06¼- .07¼
l.c.l., works lb. .03½- .07½
tanks, works lb. .05 - .06
Tallow, acidless, dms. lb. .10½- .11
Tansy, dms lb. 8.25 9.00
Tar, pine, com'l, dms., extra, c.l., works lb. .0438- —
l.c.l., works lb. .0545- —
wbse lb. .0655- —
tanks, works lb. .041 - —
rectified, N.F. l.c.l., dms. ex. tra works, South gal. .67 - —
wbse N.Y.C. gal. .77 - —
Tar acid (see T).
Theobroma (see Cocoa butter).
Thyme, NF red, cns., dms. lb. 1.90 3.75
white cns lb 2.25 4.00
tech., white, cns lb. .40 - 1.85
Tung, dom., tanks, mills lb. .23¼- .28½
drums, c.l., works lb. .25¾- —
l.c.l. lb. .32¼- .32½
tanks lb. .30 - .30¼
Turkey red (see Oil, castor, sulphonated).
Turpentine, NF, cns., dms. lb. .39 .40
Vetiver, Bourbon cns. lb. 19.00 -24.00
Haitian, cns. lb. 17.50 -26.00
Java cns lb. 29.00 -35.00
Wheat germ, 5-gal. dms gal. 38.00 -43.00
White mineral, tech., 50-65 vis., dms, c.l. gal. .51½- .54½
l.c.l. gal. .56½- .57½
65-75 vis., dms., c.l. gal. .52½- .55½
l.c.l. gal. .57½- .58½
NF 80-90 vis., dms., c.l. gal. .53½- .56½
l.c.l. gal. .58½- .59½
125-135 vis., dms., c.l. gal. .59½- .62½
l.c.l. gal. .64½- .65½
145-155 vis., dms., c.l. gal. .66 - .68½
l.c.l. gal. .71 - .71½
175-185 vis., dms., c.l. gal. .69½- .73
l.c.l. gal. .74½- .76
USP, 200-210 vis., dms., c.l. gal. .72½- .75
l.c.l. gal. .77½- .78
345-355 vis., dms., c.l. gal. .77 .80
l.c.l. gal. .83 .85
Wintergreen, USP, nat., Northern, cns lb. 7.15 -14.50
Southern, cns lb. 3.86 -19.50
synthetic (see Methyl salicylate)
Wood (see Oil, tung).
Wormseed, cns lb. 8.75 - 9.50
Wormwood, cns lb. 5.55 - 6.85
Ylang-ylang, Bourbon, bots lb. 18.00 -30.00
extra, bots lb. 30.00 -40.00
Madagascar bots lb Nom. stocks
Oleostearin, bbls. lb. .03¾- .07
Olivine aggregate, c.l., mines ton 7.00 9.50
crushed 8 mesh, bulk, c.l. works ton 10.00 —
paper, bgs, c.l., works ton 12.00 —
Opium, USP, cns lb. 19.20 -19.45
gran., USP, cns lb. 21.65 -21.90
powd., USP cns lb 21.65 -21.90
Orange, cadmium, lithopone, bbls., frt. alld. E. of Rockies lb. 1.20 - —
Chrome, CP, bbls., dlvd N. of Tenn and N. C., E of Miss. R., include Davenport, Fenn. and N. C. E. of Minneapolis, Rock Island, St. Louis, St. Paul lb. .31 - —

Chrome orange prices are ½c. higher dlvd. Ala., Fla., Ga., La. (Shreveport), 1¼c. Miss., N. C., S. C., Tenn., Dallas and Ft. Worth, Tex., 1½c. El Paso, Tex., 2c. Cedar Rapids, Des Moines, Kansas City, Lincoln, Omaha, St. Joseph; 1.6c. higher dlvd Pac. Coast, for Denver, Pueblo, Salt Lake City, Wichita prices are equalized with Chicago.

Dinitroanilin toner lb. 1.30 - —
Orange mineral, American, bbls., l.c.l., ship't point, frt. alld. lb. .1960- —
Molybdated, bbls lb. .44 - —
Orthonitroanilin toner, kgs lb. 1.15 - —
Persian, bbls lb. .65 - —
Orange flowers, bls lb. .55 - .56
Peel, bitter, Haitian, bls lb. .12 - .14
sweet, bls lb. .14 - .16
Oregano, Italian, bgs lb. .24 Nom.
Mexican, bgs., afloat lb. .15½ Nom.
Portugese, bgs., afloat lb. .20 Nom.
Orris root, Florentine, bls lb. .29 - .30
powdered, bbls., bxs lb. .35 - .38
Verona, bls lb. .17 - .18
powdered, bbls., bxs lb. .22 - .23
Orthoaminobiphenyl, dms., c.l., works lb. .32½- —
l.c.l., same basis lb. .33 - —
tanks, same basis lb. .37 - —
Orthoanisidin bbls lb. .68 - —
Orthochloroanilin, dms., c.l. lb. .65 - .70
l.c.l. lb. .67 - .72
Orthochlorobenzaldehyde, dms., works lb. 1.18 - —
Orthochloroparanitroanilin, dms., dlvd lb. .86 - —
Orthochlorophenol dms., c.l., frt. equald lb. .34½- —
l.c.l., same basis lb. .35½- —
Orthocresol, pure, 30° C., non-ret., dms., c.l., frt. equald lb. .173 - —
l.c.l., same basis lb. .176 - —
ret. dms., c.l., same basis lb. .17 - —
l.c.l., same basis lb. .17½- —
tanks, same basis lb. .16 - —
29°C., ret. dms., c.l., same basis. lb. .16 - —
l.c.l., same basis lb. .16½- —
tanks, same basis lb. .15 - —
25-29°C., non-ret. dms., c.l., same basis lb. .153 - —
l.c.l., same basis lb. .156 - —
tanks, same basis lb. .140 - —
Orthodichlorobenzene, dms, c.l., works, frt. alld. E. of Rockies lb. .11¼- .13¼
l.c.l., same basis lb. .12¼- .14¼
tanks, same basis lb. .09¾- .11¾
Orthoisopropyl N phenylcarbamate (see IPC).
Orthonitroanilin dms lb. .50 - .58
Orthonitrochlorobenzene, dms lb. .20 - .21
Orthonitrobiphenyl tech., dms., c.l., works lb. .14½- —
l.c.l. works lb. .15 - —
tanks, works lb. .13 - —
Orthonitroparachlorophenol, cns lb. .75 - —
Orthonitrophenol, bbls. works lb. .94 - —
Orthonitrotoluene, dms., c.l., frt. alld. lb. .10 - —
l.c.l., frt. alld lb. .11 - —
tanks, frt. alld lb. .09 - —
Orthophenetidin dms., works lb. 1.00 - —
Orthophenylphenol fib dms., works. lb. .20 - .44
Ortho-tertiary-amylphenol, dms., c.l., works lb. .43¾- —
l.c.l., works lb. .46¾- —
tanks, works lb. .41¾- —
Orthotoluidin, dms., c.l., works lb. .23 - —
l.c.l., same basis lb. .24 - —
tanks, same basis lb. .22 - —
Osage orange, crystals, No. 1, bbls., l.c.l lb. .40 - —
extract, liquid, No. 1, bbls., l.c.l lb. .19 - —
Orthotolidin (see Tolidine Base)
Ouabain, USP, bots gram. 3.00 - 4.00

Ox bile, extract, powdered, USP 5-lb. lots or more lb. 6.00 - —
not extract, powdered, 5-lb. lots or more lb. 4.35 - —
Oxyquinolin sulphate cns., 100-lb. lots, works lb 4.75 - 5.00
smaller lots, works lb. 4.92 - 5.17

P

Pancreas substance, assay 1:75 bots., 5-lb. lots or more lb. 5.75 - —
Pancreatin, USP bots lb. 2.50 - 3.00
Panthenol, bots., works, frt. adjust. kilo. 90.00 —
Papain, powd., African, dms. lb. 6.25 - 7.00
Ceylon, dms lb. 5.25 - 5.75
Papaverine, natural or synthetic hydrochloride, USP, cns., 25 oz. to 100 oz., lots oz. 5.00 - —
smaller lots oz. 5.05 - 5.20
Sulphate, cns oz. 7.10 - 7.35
Paprika, Algerian, bgs lb 27 28
Czech, bgs lb. .32 - .34
Moroccan, bgs. lb. .24 - .25
Spanish, bgs lb. .42 - .46
Para-anisidin dms, works lb. .98 - —
Para-acetylaminobenzaldehyde thiosemicarbazone, dms., frt. adjusted lb 17.50 -21.00
Para-aminophenol dms. frt alld lb. .97 - .98
Parachloroanilin, dms., frt. alld., E. of Miss lb. .75 - —
Parachlorobenzaldehyde, dms. works, lb. 1.24 1.37
Parachloro-orthonitroanilin, dms., frt. alld lb. .73 - .82
Parachlorophenol, dms., c.l., frt. equald lb. .34½- —
l.c.l., same basis lb. .35½- —

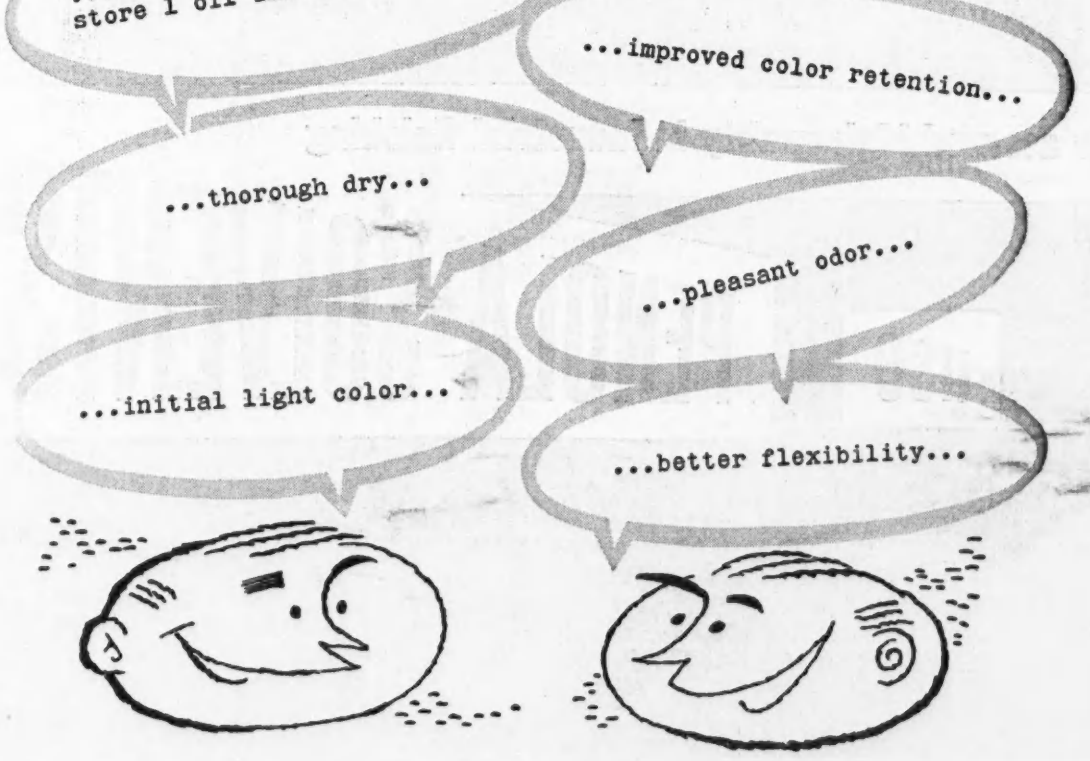
Paracresol, 98%, dms., c.l., dlvd lb. .49 - —
l.c.l., dlvd. lb. .51 - —
Methylether, cns lb. 2.15 - 2.50
Paracymene, dms., 50-gal. lots or more, works gal. 2.50 - —
smaller lots gal. 3.00 - —
Paradibromobenzene, bgs. 500-lb. lots, lb. .55 - —
Paradichlorobenzene, dms., c.l., works lb. .14½- —
l.c.l., same basis lb. .17 - —
Paraffin, crude scale, white, 121°-123°F, ASTM, solid, c.l., ref'y lb. .055 - —
fully refined, 122-124 ASTM, loose, c.l., rfy lb. .0745- —
125°-127°F, ASTM, loose, c.l., ref'y lb. .0745- —
130°-132°F, ASTM, loose, c.l., ref'y lb. .0755- —
132°-134°F, ASTM, loose, c.l., ref'y lb. .0755- —
135°-137°F, ASTM, loose, c.l., ref'y lb. .0755- —

Prices for paraffin in bags and ctns., c.l., 7.10c. per lb. higher; 1,000 to 9,999 lbs., 2.7c. per lb higher and under 1,000 lbs., 3.7c. per lb. higher

Paraformaldehyde tech., 91%, powd. bgs., c.l., frt. alld. lb. .15½- —
l.c.l., frt. alld lb. .17 - —
flake, bgs., c.l., frt. alld lb. .12 - —
l.c.l., frt. alld lb. .13½- —
USP X, fib dms., c.l. lb. .198 - —
10,000-lb lots lb. .198 - —
1,000-lb. lots lb. .198 - —
smaller lots lb. .208 - —

Paraldehyde, tech., 98%, 55-gal. dms., c.l., works lb. .1385- .1630
l.c.l., works lb. .1485- .1750
tanks, works lb. .1200- .1500
Paranitroanilin, dms., c.l., works, frt. alld lb. .48½- —
l.c.l., works, frt. alld lb. .51¼- —
Paranitrochlorobenzene, kgs., works. lb. .21 - .22
Paranitrophenol, kgs., works, frt. equald lb. .46 - —
Paranitrotoluene, kgs., frt. alld lb. .36 - —
Paraphenetidin, dms., works lb. .90 - —
Paraphenylenediamine, redistilled, dms., works lb. 2.00 - —
tech., refd., dms., same basis lb. 1.10 - 1.35
Paraphenylphenol, bgs., c.l., works. lb. .37½- —
l.c.l., same basis lb. .42 - —
Para-tertiary-butylphenol, bgs., c.l., works lb. .27½- —
l.c.l., same basis lb. .28½- —
Parathion, spray powder, 15%, dealers, tins lb. .53 - .59
tech., dms., works lb 1.50 - —
Para-tertiary-amylphenol, ctns., c.l., works lb. .26 - —
l.c.l., works lb. .27 - —
tanks, works lb. .25 - —
Paratoluenesulphonamide, flake, bbls., frt. alld lb. .64 - .66
powd. bbls. works lb. .70 - —
solid, bbls. frt alld lb. .61 - —
Paratoluidin flake, bbls., frt. alld. lb. .64 - —
solid, bbls., frt. alld lb. .60 - .61
Paris green, dealer, distributor, dms., c.l., works, frt. alld. on 96 lbs. or over lb. .35 - .36
l.c.l., same basis lb. .39 - .67

Here's what paint and varnish manufacturers say about SAFFLOWER OIL:



Many smart paint manufacturers are using standard non-break Safflower oil in improved exterior finishes, as well as in alkyds and varnishes; standard kettle-bodied Safflower for improved interior and exterior finishes.

If you're not using Safflower oil, take a tip: get on the bandwagon now. Write today for information.

PVO OILS VARNISH PAINT & PACIFIC VEGETABLE OIL CORP.

INDUSTRIAL OILS:

Linseed, Tung, Safflower, Soya, Oiticica, Castor, Sardine. Also Coconut Oil, Lard, Walnut Oil and others.

62 TOWNSEND STREET
SAN FRANCISCO, CALIF.

Passion Flower Herb—Phenylethanolamine

Passion flower herb, bls ..... lb .25 - .26
Peanut meal, 45%, old proc., sacked, mills ..ton.78.00 - —
solvent, same basis ....ton.75.00 - —
Pectin, citreus, NF, powd., bbls lb. 2.03 - 2.06
tech., powd., bbls ..... lb. 1.50 - —
Penicillin, crystalline, potassium, sterile, bulk, 1,000,000 units.. .09 - .10
Procaine, bulk, 1,000,000 units.. .10 - .11
Sodium, sterile, bulk, 1,000,000 units. .09 - .10
Pennyroyal herb, bls ..... lb .45 - .50
Pentachlorophenol, dms., c.l., works, frt. equald lb .21 - —
l.c.l., same basis ..... lb. .24 - .26
truckload, 20,000 lbs. min. same basis lb. .21¼- —
Pentaerythritol, tech., bgs., c.l., works lb. .33 - —
l.c.l., works ..... lb .34 - .36
Di- and tri-isomers (see Dipentaerythritol and Tripentaerythritol).
Pentane, industrial, tanks, group 3, gal. 19 .13½
Pepper, black, Malabar, spot, bgs lb. 1.45 - 1.47
red, Carolina, long, bgs ..... lb. .44 - .45
Gondar, bgs. ..... lb. .24 - .25
Japanese hontakas, bgs ..... lb. .46 - .47
birdseyes, bgs.. afloat .... lb. .62 - —
Louisiana longs, bgs ..... lb. .45 Nom.
Mississippi sports, bgs., source, new crop lb. .45 Nom.
Mombasa, bgs. ..... lb. .44 - .45
Nigerian, bgs. ..... lb. .34 - .35
Turkish, bgs. ..... lb. .32 - .33
Unganda, bgs..... lb. .36½ Nom.
Zanzibar, bgs. ..... lb. .43 - .44
white, bgs. ..... lb. 1.55 - —
Peppermint leaves, USP, bls., dms.. lb. .65 - .66
imported, bls. ..... lb. 1.05 Nom.
Pepsin, NF, 1:3,000, bulk ..... lb. 3.75 - 3.90
Perchlorosthylene, dms. c.l., or truckloads, works lb. .11 - —
dlvd. E ..... lb. .12 - —
l.c.l., works ..... lb. .11¾- —
dlvd. E ..... lb. .12½- —
tanks, works ..... lb. .10½- —
Peru balsam, dms ..... lb. 1.40 - 2.00
Petrolatum, amber, dms., c.l., refy. lb. .04¾- .05⅝
l.c.l., dlvd. ..... lb. .06⅛- —
tanks, refy ..... lb. .03½- .04⅛
cream, dms., c.l., refy ..... lb. .06 - .07⅛
l.c.l., dlvd. ..... lb. .08¼- —
tanks, refy ..... lb. .04¼- .05⅝
extra, amber, dms., c.l., refy lb. .05 - .05⅞
l.c.l., dlvd. ..... lb. .06¾- —
tanks, refy ..... lb. .03¾- .04⅛
USP, white, lily, dms., c.l., refy. lb. .06⅜- .07⅛
l.c.l., dlvd ..... lb. .08⅝- —
tanks, refy ..... lb. .05½- .06
soft, dms., c.l., refy ..... lb. .06⅝- .07¾
l.c.l., dlvd. ..... lb. .08¼- —
tanks, ref'y ..... lb. .05¾- —
snow, dms., c.l., refy ..... lb. .06⅞- .08
l.c.l., dlvd. ..... lb. .09¼- —
tanks, refy ..... lb. .05¾- .06½
yellow, soft, dms., c.l., refy lb. .05 - .05⅞
l.c.l., dlvd. ..... lb. .06⅝- —
tanks, ref'y ..... lb. .05¾- —
Petroleum, crude, bulk, at wells, California..bbl. 1.42 - 3.53
Illinois ..... bbl. 2.63 - 2.77
Kentucky ..... bbl 2.42 2.83
Louisiana-Arkansas ..... bbl. 2.14 - 2.90
Montana ..... bbl. 2.23 - 2.75
Oklahoma-Kansas ..... bbl. 2.23 - 2.65
Pennsylvania lower field. bbl. 3.91 - —
Upper field ..... bbl. 4.40 - —
Texas, East ..... bbl. 2.25 - —
Gulf coast ..... bbl. 2.38 - 2.95
North, North-Central. bbl. 2.23 - 2.65
Panhandle ..... bbl. 2.23 - 2.65
West ..... bbl. 2.10 - 2.65
Wyoming ..... bbl. 1.28 - 2.65
Fuel oil, bunker C, No. 6, California, heavy, tanks, refinery, bbl. 1.95 - 2.15
light, tanks, refinery.. bbl. 2.15 - 2.25
eastern, tanks, Albany, N. Y. bbl. 2.35 - —
Baltimore, Md. ..... bbl. 2.10 - —
Boston, Mass. ..... bbl. 2.15 - —
Charleston, S. C. ..... bbl. 2.00 - —
Jacksonville, Fla ..... bbl. 1.97 - —
New York Harbor ..... bbl. 1.90 - 2.00
Norfolk, Va. ..... bbl. 2.05 - —
Philadelphia, Pa. ..... bbl. 2.10 - —
Portland, Me. ..... bbl. 2.15 - —
Providence, R. I. ..... bbl. 2.12 - —
Savannah, Ga. ..... bbl. 2.00 - —
Diesel, tanks, refinery, California gal. .101 - .115
Pennsylvania ..... gal. .0925- .1025
Furnace, tanks, refinery, Arkansas, No. 2 gal. .08375- —
No. 3 ..... gal. .08 - —
N. Y. Harbor, No. 2.... gal. .0975- —
group 3, No. 1..... gal. .0775- .0875
No. 1, straw ..... gal. .09 .09375
No. 2, straw..... gal. .0725- .08125
range ..... gal. .0875- —
Pennsylvania, western, No. 1, gal. .1075- .1135
No. 2..... gal. .105 - .112
No. 3..... gal. .105 - .112
Petroleum, lacquer diluent, California, 170-225°F., b.r., tanks, ex tax, f.o.b. Los Angeles..gal. .167 - .207
East coast, tanks, N. J. and N. Y refinery gal. .18 - —
group 3, benzol-type, tanks, refinery gal. .13125- .13625
toluol-type, tanks, refinery, gal. .12125- .12375
Mineral spirits, regular, California, tanks, ex tax, f.o.b. San Francisco..gal. .147 - .157
East coast, tanks N.J., N.Y. gal. .16 - —
Group 3, tanks .... gal. .10875- —
tankwagon, Baltimore... gal. .175 - —
Boston ..... gal. .18 - —
Buffalo ..... gal. .185 - —
Newark ..... gal. .17 - —
New York ..... gal. .165 - .17
Philadelphia ..... gal. .165 - —
Pittsburgh ..... gal. .19 - —
Providence ..... gal. .185 - —
Rochester ..... gal. .20 - —
Syracuse ..... gal. .21 - —
Washington, D. C ..... gal. .195 - —
specially refined, tanks, f.o.b. Watson, Calif. gal. .228 - —
f.o.b. Bordertown, Tex., gal. .24 - —
f.o.b. Houston, Texas. gal. .24 - —
f.o.b. Wood River, Ill. gal. .2625 - —
tank transport, f.o.b. Carteret, N. J. gal. .336 - —
tankwagon, N. Y. and N. J. gal. .37 - —
Naphtha, cleaners, East Coast, tanks, N. J. and N. Y. refinery..gal. .16 - —
Group 3 tanks ..... gal .11875- —
tankwagon, Newark ..... gal. .17 - —
New York ..... gal. .17 - —
Philadelphia ..... gal. .165 - —
high flash, 140°, group 3, refinery, tanks gal. .134 - .1425
high-solvency, 200-235 b.r., 37-38° C., mixed anilin pt., tanks, refinery or East Coast gal. .25½- —
25-26° C., m.a.p. tanks, same basis gal. .24 - .30½
270-370 b.r., 78-81°C., m.a.p., tanks, same basis ..... gal. .29 - —
49°C, m.a.p., tanks, same basis gal. .32 - —
26-27° C., m.a.p., tanks, same basis gal. .24 - .33
300-400 b.r., 28°-32° C., m.a.p., tanks, same basis gal. .24 - .30½
340-410 b.r., 36° C., m.a.p., tanks, same basis gal. .24 - —
32° C., m.a.p., tanks, same basis gal. .24 - .30½
27° C., m.a.p., tanks, same basis gal. .34½- —
350-425 b.r., 32° C., m.a.p., tanks, same basis gal. .30½- .31½
V.M.&P., tanks, ref'y, California, 245-360 b.r., Los Angeles, gal. .152 - —
Portland, Ore.... gal. .158 - —
San Francisco ..... gal. .157 - —
Seattle, Wash .... gal. .158 - —
East coast, N. J., N. Y., tanks gal. .17 - —
Group 3, tanks ..... gal. .11875- —
tankwagon, Boston..... gal. .195 - —
Newark ..... gal. .185 - —
New York ..... gal. .185 - —
Philadelphia ..... gal. .180 - —
Pittsburgh ..... gal. .20 - —
Solvent, rubber, California, tanks, ex tax, San Francisco gal. .157 - —
East coast, N. J., N. Y gal. .17 - —
Group 3, tanks ..... gal. .11875- —
Stoddard, California, tankwagon, ex-tax, Los Angeles. gal. .157 - .197
East coast, N. J., N. Y., tanks gal. .16 - —
Group 3, tanks ..... gal. .11375- —
Pennsylvania, western, tanks, l.c.l., same basis..... lb. .20 - —
tankwagon, Boston..... gal. .18 - —
Newark ..... gal. .17 - —
New York..... gal. .17 - —
Philadelphia ..... gal. .165 - .17
Pittsburgh ..... gal. .19 - —
Syracuse ..... gal. .21 - —
Sulphonate, oil soluble, 70%, sulphonic content, non-ret., dms., c.l., works..lb. .2040- —
l.c.l., works..... lb. .2065- —
tanks, works..... lb. .1850- —
60-62% sulphonic content, non-ret, dms., works..lb. .175 - .20
l.c.l., works ..... lb. .185 - .202
tanks, works..... lb. .145 - .185
50-55% sulphonic content, non-ret, dms., works. lb. .153 - —
l.c.l., works..... lb. .165 - —
tanks, works..... lb. .125 - —
Phenobarbital, USP, dms., 100 lbs lb. 4.50 - 4.70
Phenobarbital-sodium, USP, dms. lb. 4.50 - 4.70
Phenol, 90-92% (cresol, 8-10%), non-ret, dms., c.l., frt. alld. E. of Rockies..lb. .18¾- —
l.c.l., same basis.....lb. .19½- —
ret, dms., c.l., same basis..lb. .18 - —
l.c.l., same basis.....lb. .18½- —
tanks, same basis.....lb. .17 - —
82-84% (cresol, 16-18%), non-ret, dms., c.l., same basis..lb. .18¼- —
l.c.l., same basis.....lb. .19 - —
ret, dms., c.l., same basis..lb. .17½- —
l.c.l., same basis.....lb. .18 - —
tanks, same basis.....lb. .16½- —
39° or above, tar distilled, non-ret, dms., c.l., same basis. lb. .19¼- —
l.c.l., same basis.....lb. .20 - —
tanks ..... lb. .17½- .18
ret, dms., c.l., same basis..lb. .19 - —
l.c.l., same basis.....lb. .19½- —
tanks, same basis.....lb. .17½- .18
USP, synthetic, dms., c.l., same basis..lb. .19¾- —
l.c.l., same basis.....lb. .20½- —
tanks, same basis.....lb. .18 - —
Phenolphthalein, USP, or yellow bbls., dms., 2,000-lb. lots. lb. 1.10 - —
smaller lots..... lb. 1.12 - 1.17
Phenothiazin, NF, fib. dms., c.l., frt. adjusted..lb. .50 - —
over 2,100 lbs., same basis lb.. .52 - —
less than 2,100 lbs., same basis. lb. .54 - —
Phenyl acetate, dms., 100 lb. lots. works lb. .50 - —
Salicylate (see Salol)
Phenylacetaldehyde solution, 50%, bots lb. 2.40 - 2.70
100%, bots..... lb. 4.00 - 4.65
Phenylacetamide 125-lb. dms., works, lb. 1.10 - —
smaller dms., works..... lb. 1.15 - 1.10
Phenylalamine dextro-laevo, dms., works lb.27.00 -37.50
Phenylcarbethoxy pyrazolone, 250-lb. fib. dms., dlvd. E lb. 3.60 - —
less than 250-lb. dms., dlvd. E lb. 4.00 - —
Phenyldiethanolamine, dms., c.l., frt. alld lb. .40 - —
l.c.l., frt. alld..... lb. .36 - .41
Phenylethanolamine, dms., c.l., works lb. .69½- —
l.c.l., same basis..... lb. .70 - —

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DOW

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Expanding applications of iodine in industry include its use in tablets for water purification

Water purification tablets based on iodine combined with glycine are proving invaluable in safeguarding the water supply of our armed forces in the field. Iodine is valuable as a basic reacting element in general industrial use, and in the manufacture of iodides, iodates, dyes and intermediates.

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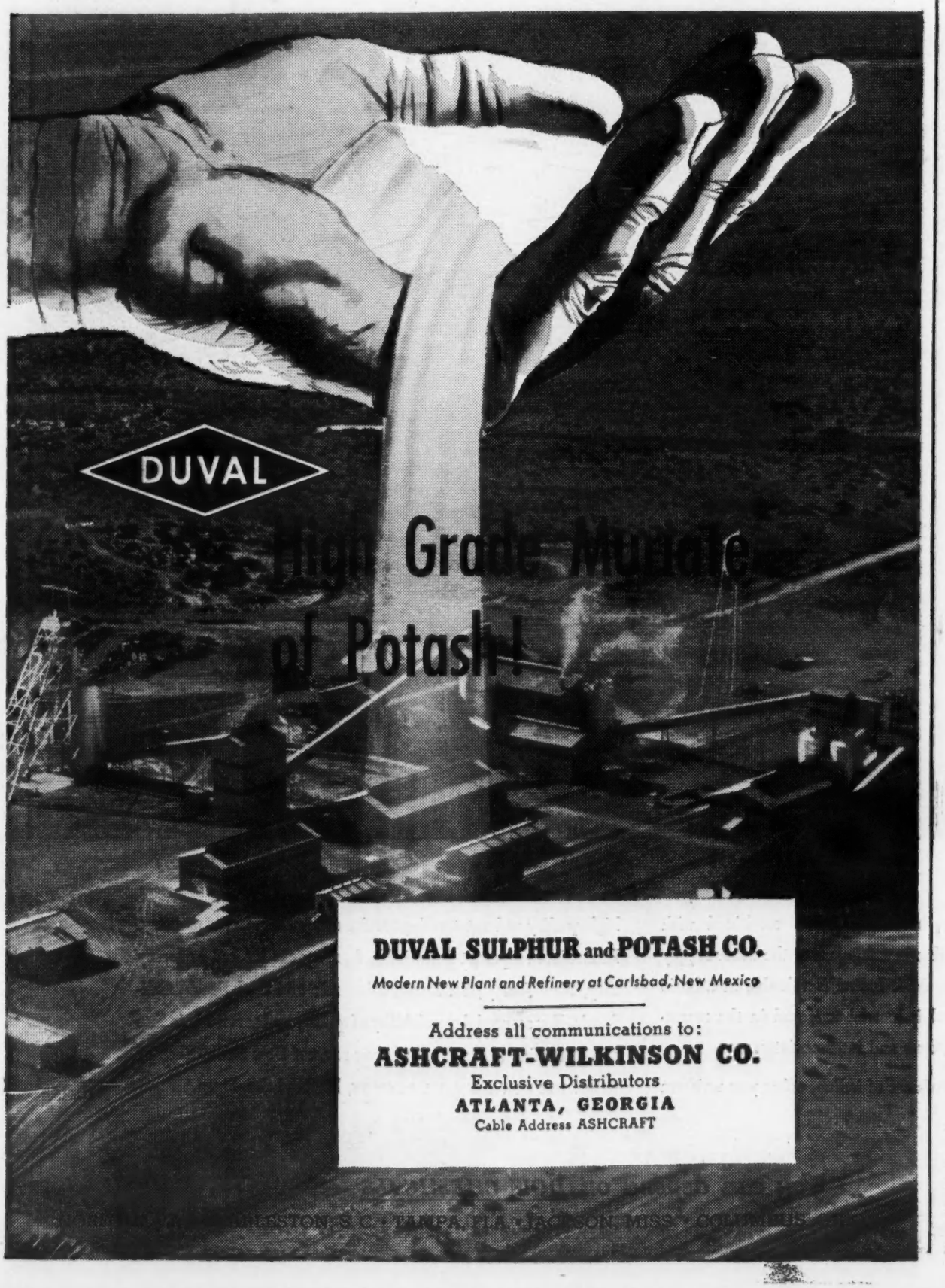
Phenylethyl Acetate—Pregnenolone Acetate

Phenylethyl acetate, bots.....lb. 1.55 - 1.95
Phenylethylphenyl acetate, bots lb. 4.05 - 4.50
Phenylhydrazin base, CP, bots lb. 3.00 - 3.07
Hydrochloride, commercial, kgs., works lb 1.75 - —
purified, bots., works.....lb. 5.12 - —
Phenylmethylpyrazolone, (see Methylphenylpyrazolone).
Phloroglucinol, coml., fib. dms., works lb 6.40 - —
C.P., bots., fib. dms.....lb.17.00 -17.25
tech., fib., dms works.....lb.10.45 - —
Phosgene, 150-lb cyls., works . lb. .27½- —
Phosphate defluorinated (see under D)
Phosphate rock, Curacao, Atlantic ports..ton.45.00 - —
Florida, land pebble, run-of-mine, washed, dried unground, bulk, c.l., mines, 70%-68%, b.p.l., c.l., same basis..long ton. 4.88 - —
72-70%, b.p.l., c.l., same basis..long ton. 5.48 - —
75%-74%, b.p.l., c.l., same basis..long ton. 6.48 - —
77%-78%, b.p.l., c.l., same basis..long ton. 7.48 - —
finely ground, 65%, b.p.l., basis 30% P_2O_5 minimum, bulk, c.l., mines..short ton. 5.15 - —
68%, b.p.l., basis 31%P_2O_5 minimum, mines.short ton. 5.35 - —
70%, b.p.l., basis 32% P_2O_5 minimum, mines.short ton 5.70 - —
plus or minus usual bonus adjustment clause for oil and labor. Prices on entirely pebble 50c. per long ton higher.

Phosphorus, red, amorphous cs..lb. .46 - .47
dms.....lb. .44 - .45
yellow, cns.....lb. .30 - .37
dms., c.l.....lb. .26 - —
Oxychloride, dms., c.l., works...lb. .13 - .14
t.c.l., dms., works.....lb. .15 - .18
tankcars, works .....100 lbs. .11½- —
Pentasulphide, solid, dms., c.l., works..lb. .11½- —
t.c.l., dms., works .....lb. .13 - .13½
Pentoxide, dms., c.l., works lb. .12 - —
t.c.l., works .....lb. .13 - .14
Sesquisulphide, tins, cs., works. lb. .29 - .29
dms., export.....lb. .33¼- .36
Trichloride, dms., c.l., works. lb. .13 - .14
t.c.l., works .....lb. .15 - .18
tankcars, works.....lb. .11½- —
Phthalic anhydride, bgs., c.l., works, frt. equald.....lb. .22 - —
t.c.l., same basis.....lb. .23 - —
tanks same basis .....lb. .21½- —
Phthalic anhydride in bags., ½c. per pound higher.
Phthalimide, 97%-98%, dms. works, frt. alld lb. .65 - —
Phthalylsulphacetamide, fiber dms., lb. 5.00 - 5.50
Pichi leaves, bgs .....lb. .16 - .17
Picoline (See Alpha, Beta and Gamma Picoline).
Pilocarpine hydrochloride, NF, bots..oz. 5.25 - —
Nitrate, USP, bots., vials.....oz. 5.10 - —
Pimento, Guatemala, bgs.....lb. .20 Nom.
Jamaica, bgs.....lb. .28 - .28½
Mexican, bgs.....lb. .21 - .22
Pinetar, retort, dms., incl. c.l., works lb. .0511- —
t.c.l. same basis.....lb. .0568- —
whse. .....lb .0678- —
Pinkroot, bls. .....lb. 2.75 Nom.

Piperazine hexahydrate, French Codex bots..kilo. 8.00 - 8.50
Piperidine, 98%, 500-lb. dms., frt. equald..lb. 2.60 - —
Piperonyl butoxide, dms., dlvd. E lb. 5.00 - 5.30
Cyclonene, dms., dlvd. E.....lb. 4.20 - 4.50
Pipsissawa herb (see Prince's pine).
Pitch, burgundy, domestic, dms., mc., c.l., t.c.l., works 100 lbs. 9.50 -10.25
Coaltar, 140°-150° F., m.p., bbls., c.l., works..ton.38.00 -45.20
Cottonseed, dms., works.....lb. .02¼- .03
Hardwood, paper bgs., c.l., works. lb. .02 - —
Linseed, dms.....lb. .06 Nom.
Petroleum (see Asphalt, petroleum).
Pine, dms., inc., t.c.l., works, South..100 lbs. 7.50 - —
Soybean, dms., works.....lb. .05 Nom.
Tall, dms., works.....lb. .03¾- .04½
Plaster of Paris (see Gypsum).
Platinum metal, works.....oz.90.00 -93.00
Pleurisy root, bls.....lb 45 - .50
Podophyllum resin, NF, dms....lb.11.00 -11.20
Pokeroot, bls. .....lb. .20 - .22
Polyoxyethylene sorbitan monostearate, dms., 20,000 lbs., works lb. .43 - —
10,000-20,000-lb. lots, works. lb. .43 - —
lb. .45 - —
smaller lots, works .....lb. .48 - .50
Tristearate, dms., 20,000 lbs., works lb. .43 - —
10,000-20,000-lb. lots, works. lb. .43 - —
smaller lots, works .....lb. .48 - .50
Polystyrene, colors, special, bgs., over 20,000 lbs., frt. alld. lb. .25½- .26
10,000-19,999 lbs., same basis lb. .26 - .26½
5,000-9,999 lbs., same basis. lb. .26½- —
standard, bgs.....lb. .25½- .26

Polystyrene, crystals, heat-resistant, bgs., c.l. .....lb. .34 - —
t.c.l. .....lb. .34½- —
standard, bgs., c.l. .....lb. .32½- —
t.c.l. .....lb. .33 - —
Polystyrene in non-returnable fib., dms., ½c. per lb. higher.
Pomegranate root bark, bgs.....lb. .75 - .76
Poppy flowers, bgs.....lb. 1.20 - 1.25
Seed, Dutch, bgs.....lb. .16 - .16½
Polish, bgs.....lb. .15 - .15¼
Turkish, bgs. .....lb. .13 - .13¼
Potash, caustic, (ow-chloride, flake, 85% basis 90% KOH, dms., c.l., works..100 lbs.10.00 - —
t.c.l., works.....100 lbs.10.75 - —
liquid, 45%, dms., c.l., works. 100 lbs. 4.625 - —
t.c.l., works.....100 lbs. 5.125 - —
tanks, works.....100 lbs. 4.30 - —
solid, 90%, dms., c.l., works. 100 lbs. 9.40 - —
t.c.l., works.....100 lbs.10.15 - —
regular, flake, 88-92%, dms., c.l., works 100 lbs. 8.50 - —
t.c.l., works .. 100 lbs. 9.25 - —
liquid, 45% basis, dms., c.l., works 100 lbs. 3.875 - —
t.c.l., same basis 100 lbs. 4.65 - —
tanks, same basis 100 lbs. 3.55 - —
solid, 88-92% dms., c.l., works 100 lbs. 7.90 - —
t.c.l., same basis, works.. 100 lbs. 8.65 - —
Potassium abietate, dms., works lb. .25 - .28
Acetate, NF, dms.....lb. .31 - .36
Bicarbonate, USP, gran., dms. lb. .22 - —
powd., dms. .....lb. .24 - —
Bichromate, bgs., c.l., works. lb. .14½- —
t.c.l., same basis.....lb. .14¾- .15½
Potassium bichromate in drums ¾c. higher.
Bitartrate (see Cream of tartar).
Bromate, bbls., 1,000 lbs. or more. lb. .50 - .52
25-200-lb. lots.....lb. .55 - .57
Bromide, USP, gran., bbls., kgs. lb. .34 - —
Carbonate, tech., calcined, bbls., c.l., works. 100 lbs. 8.25 - —
t.c.l., same basis . 100 lbs. 9.30 - —
hydrated, 83-85%, bbls., c.l., works..100 lbs. 6.75 - —
t.c.l., works.....100 lbs. 7.50 - —
USP, gran., bbls., dms.....lb. .16½- .18
powd., bbls., dms. .....lb. .21 - .23
Chlorate, cryst., dms., c.l., works lb. .09¾- —
t.c.l., works.....lb. .10 - .11
powd., dms., c.l., works.....lb. .10¼- —
t.c.l., works.....lb .10¾- .11¼
export, dms., 1 to 10 tons, works..lb. .13 - .13¾
NF, gran., dms.....lb. .32 - .33
Chloride, USP, cryst., dms.....lb. .21 - .23
gran., dms .....lb. .15 - .17
powd., dms .....lb. .24 - .26
Chromate, tech., bgs.....lb. .33½- .36
Citrate, USP, gran., dms.....lb. .37½- .38½
powder, dms .....lb. .40½- .41½
Cyanide, dms., 500-lb. lots or more, works..lb. .55 - —
less than 500-lb. lots, works.. lb. .57 - —
Fluoborate, fib. dms., c.l., works. lb. .26 - —
t.c.l., works .....lb. .27 - —
Fluoride, dms., works.....lb. .24 - —
Gluconate, dms.....lb. .75 - .79
Glycerophosphate, 75% solution, cbys..lb. 2.15 - 2.25
Guaiacolsulphonate NF, dms....lb. 2.10 - 2.30
Hydroxide, tech (see Potash caustic).
USP, pellets 100 lb. dms. 1 to 100 dms..lb. .28½- .33
Hypophosphite, NF, ton lots or less, fib. dms..lb. 1.00 - 1.03
Iodide, dms.....lb. 2.15 - 2.20
Manure salt, 22% K_2O, bulk, mines unit-ton. .21 - —
Metabisulphite gran., dms....lb. .20 - .21
powd., dms. .....lb. .25 - —
Muriate, dom., 50-60% K_2O, bulk, Carlsbad, N. M...unit-ton. .43 - —
Trona, Cal. .....unit-ton. .53 - —
50-51% K_2O, paper bgs., Carlsbad, N. M..ton.25.75 - —
Nitrate (see Saltpeter).
Oxalate, neutral, tech., fine gran., bbls., rms..lb. .30 - .32
Pentaborate, gran., bgs., c.l., works..ton.184.00 - —
ton lots, bbls., ex whse ton.261.00 - —
less ton lots, bbls., ex whse.ton.266.00 - —
Powdered Potassium pentoborate, $10.25 per ton higher.
Perchlorate, dms., c.l., works..lb. .14 - —
t.c.l., works.....lb. .14½- .15½
Permanganate, tech., dms., works. lb. .22½- .23½
USP dms., works.....lb. .24¾- .30¼
Persulphate, dms., c.l., works..lb. .18 - .19
t.c.l., works.....lb. .20 - .22
Phosphate, tetrabasic, bbls., works. lb. .16½- .18½
Prussiate, red, kgs.....lb. .60 - .62
yellow, dms., ton lots.....lb. .22½- —
smaller quantities.....lb. .23 - —
kegs .....lb. .28 - —
Silicate, glass, bgs., c.l., works.. 100 lbs.14.70 - —
t.c.l. .....100 lbs.15.20 - —
solution, clarified, 29° Be, 1:2.5, dms., c.l., works..100 lbs. 5.50 - 5.65
t.c.l., 5 dms. or more, works..100 lbs. 6.25 - 6.65
tanks, works .....100 lbs. 5.15 - 5.30
tech., 29° Be, 1:2.5, dms., c.l., works..100 lbs. 4.85 - —
t.c.l., dms., works.. 100 lbs. 5.35 - —
tanks, works .....100 lbs. 4.50 - —
32.5° Be., dms., c.l., works 100 lbs. 4.95 - —
t.c.l., works.....100 lbs. 5.45 - —
tanks, works.....100 lbs. 4.60 - —
40.5° Be., 1:2.0, dms., c.l., works..100 lbs. 5.45 - 6.70
t.c.l., 5 dms., works. 100 lbs. 5.95 - 7.85
tanks, works .....100 lbs. 5.10 - 6.35
Silicofluoride, bbls., works.....lb. .09 - .09¼
Stannate, dms., frt. alld, E..lb. .740 - .796
Sulphate, agricultural, 90-95% K_2SO_4, bulk, works, basis 90%..ton.36.25 - —
NF VII, cryst., dms.....lb. .31 - .33
gran., dms. .....lb. .18½- —
powder, dms. .....lb. .16½- .17
Sulphocyanide, cryst., NF (see Potassium thiocyanate)
Thiocyanate, NF, cryst., dms., 100-lb. lots or less..lb. .87 - .94
tech., works .....lb. .77 - .79
Titanate, etns., c.l., works.....lb. .12½- —
5-ton lots, works .....lb. .12¾- —
1-ton lot or less, works....lb. .13 - —
Potassium-magnesium sulphate bulk, works basis 40% K_2SO_4, 18% MgO..ton.16.00 - —
Potassium-sodium tartrate (see Rochelle salt).
Potassium-titanium fluoride, fib. dms., works..lb. .35 - .38
Oxalate, bbls., dms.....lb. .85 - .95
Potassium-zirconium fluoride, fib. dms., c.l., works..lb. .50 - —
t.c.l., works .....lb. .52¼- .55
Pregnenolone, bots.....gm. .85 - —
Acetate, bots.....gm. .75 - —



Prickly ash bark, bls.	lb.	.53	Nom.
Berries, bgs.	lb.	.70	- .75
Prince's pine herb, bls.	lb.	.60	- .61
Procaine hydrochloride, USP, dms., frt. alld.	lb.	3.10	- 3.40
Progesterone, UPS, 100 gms., bots.	gm.	1.05	- —
Propane, commercial grade, tanks, group 3	gal.	.04	- —
Propionaldehyde, dms., 5,000 lbs. or more, custom contract	lb.	.60	- —
Propyl acetate, normal, dms., c.l., dlvd.	lb.	.125	- —
l.c.l., dlvd.	lb.	.135	- —
tanks, dlvd.	lb.	.1075	- —
Aldehyde (see Propionaldehyde).			
Gallate, dms., 2,000 to 100 lb. lots, works	lb.	3.90	- 4.40
Parahydroxybenzoate, USP, sms.	lb.	2.30	- 2.40
Propylene dichloride, dms., c.l., dlvd. E	lb.	.0845	.095
l.c.l., same basis	lb.	.0950	.1050
tanks, same basis	lb.	.07	- .08
Oxide, dms., c.l., dlvd. E	lb.	.19½	.20½
l.c.l., dlvd. E	lb.	.20½	.21½
tanks, dlvd. E	lb.	.17½	.18½
Propyleneglycol, industrial, dms., c.l., dlvd. E	lb.	.19¼	.21¼
l.c.l., same basis	lb.	.20¼	.22¼
tanks, same basis	lb.	.17½	.18½
USP, dms., c.l. dlvd. E	lb.	.20¼	.21½
l.c.l., same basis	lb.	.21¼	.22¼
tanks, same basis	lb.	.18½	.19½
Methylether, dms., c.l., dlvd. E	lb.	.20	- —
l.c.l. same basis	lb.	.21	- —
tanks, same basis	lb.	.18½	- —
Propylthiouracil, bots., 50-kilo lots or more	kilo.	55.00	- —
smaller lots	kilo.	55.10	-55.30
Psyllium seed, black, bgs.	lb.	.26	- .27
blonde, bgs.	lb.	.16	- .20
husks, bgs.	lb.	.52	- .54
Pulsatilla herb, bls	lb.	.52	- .53
Pumice, com. grd., coarse to fine, 0, ½, 1, 1½, 2, 3 bgs., ton lots	lb.	.03⅝	- .04¼
smaller lots	lb.	.03⅞	- .04½
Italian, silk-screen, coarse, bags, ton lots	lb.	.06½	- —
fine, bgs., ton lots	lb.	.04	- —
sun dried, coarse, bgs ton lots	lb.	.02½	- .04
fine, bgs., ton lots	lb.	.02½	- .04
Pumice in bbls is ½c. per lb higher.			
Pumpkin seed bgs	lb.	.18	- .20
Pyrethrin, synthetic (see Allethrin).			
Pyrethrum flowers, fine grd. 0.9% pyrethrins bbls works	lb.	.50	- —
powder, 1.3% pyrethrins, bbls., works	lb.	.71½	- —
Pyrethrum liquid (20 to 1) basis 2 grams pyrethrins per 100cc. odorless base, bbls., works	gal.	9.75	-10.50
(30 to 1) basis 3 grams pyrethrins per 100 cc. odorless base, bbls., works	gal.	15.75	- —
oleoresin dewaxed 20% for aerosol bombs, dms. works	lb.	11.00	-12.00
Pyridin, denaturing, dms., c.l., works and frt. equald.	gal.	2.77	- —
l.c.l., same basis	gal.	2.80	- —
refd., 2°, non-ret. dms., l.c.l., same basis	lb.	.981	- 1.15
Pyridoxine hydrochloride, 100-gram bots	gram.	.55	- —
Pyrites	long-ton.	No prices.	
Pyrocatechol (see Catechol).			
Pyrogallol, NF	lb.	3.25	3.43
Pyrophyllite, insecticide grade, 200 mesh, bgs. c.l. mines	ton	13.00	-13.50
No. 3, 200 mesh, bulk, c.l., mines	ton	11.00	- —
rubber grade, 140 mesh, bgs., c.l. mines	ton	11.50	-12.00
standard, 200 mesh, bulk, c.l., mines	ton	12.50	- —
230 mesh, bulk, c.l., mines	ton	13.50	- —
325 mesh, bulk, c.l., mines	ton	16.75	- —
Standard and No. 3 pyrophyllite in paper bgs. $3 to $3.50 per ton extra.			
Pyroxylin scrap, opaque, amber, dms., works	lb.	.15	- —
black, dms., works	lb.	.12	- —
mixed, mottled, dms., works.	lb.	.11	- —
white, china, ivory, dms., works	lb.	.12	- .13
dense, dms., works	lb.	.12	- .13
transparent, colorless, dms., works	lb.	.25	- —
Pyroxylin scrap, transparent, colorless, dms., works	lb.	.25	- —
colors, dms., works	lb.	.14	- —
shavings, opaque, amber, cs., works	lb.	.11	- —
mixed colors, dms., works.	lb.	.11	- —
USP, bots.	lb.	9.50	- —

Q

Quebracho extract, clarified, grd., 70% tannin, bgs., c.l.	lb.	.16½	- .16¾
liquid, 35% tannin, bbls., works, tanks, same basis	lb.	.08¼	- —
solid, clarif., 64% tannin, bgs., c.l., exdock, duty extra	lb.	.12⅞	- —
ordinary, 63% tannin, bgs., c.l., same basis	lb.	.11 31/64	—
Quebracho extract prices are based on $20.40 freight and $1 insurance per long ton.			
Queen of the meadow root, bgs	lb.	.25	- .26
Quercitron extract, crystals, No. 1, bbls., l.c.l.	lb.	.40	- —
liquid, No. 1, bbls., l.c.l.	lb.	.19	- —
Quicksilver, flasks (76 lbs. net)	flask	200.00	-202.00
Quince seed, bgs	lb.	1.20	- 1.75
Quinidine, NF, V cryst., cns., 100-oz. lots	oz.	1.90	- —
powd., precip., cns., 100-oz. lots	oz.	1.85	- —
Sulphate, USP, cns., 100-oz. lots	oz.	1.00	- —
Quinine, NF, cns., 100-oz. lots	oz.	.54	- —
Bisulphate, USP, cns., 100-oz. lots	oz.	.37½	- —
Dihydrochloride, USP, cns.	oz.	.54	- —
Ethylcarbonate, NF, cns., 100-oz. lots	oz.	.63½	- —
Hydrobromide, NF, cns., 50-oz. cns.	oz.	.47½	- —
Hydrochloride, USP, cns., 100-oz. lots	oz.	.47½	- —
Phosphate, NF, cns., 100-oz. lots	oz.	.61	- —
Salicylate, NF, cns., 100-oz. lots	oz.	.55	- —
Sulphate, USP, cns., 100-oz. lots	oz.	.42	- —
Quinine and Urea hydrochloride, NF, cans	oz.	.56	- —
Quinolin, dms., c.l., frt. equald.	lb.	.50¾	- —
l.c.l., same basis	lb.	.51¼	- —
tanks, same basis	lb.	.50	- —

R

R salt, paste, basis, 100%, dms., frt. alld.	lb.	.83	- —
powd., basis, 100%, frt. alld.	lb.	.88	- —
Raspberries, dried, bbls.	lb.	1.30	- 1.35
Red, BON, acid maroons, pure, bbls.	lb.	1.75	- —
resinated, bbls.	lb.	1.50	- —
arylid, deep shades, bbls.	lb.	3.60	- —
light shades, bbls.	lb.	2.75	- —
maroon, bbls.	lb.	3.60	- 5.00
Cadmium, CP, dark shade, bbls., frt. alld. E. of Rockies	lb.	4.39	- —
light shade, same basis	lb.	4.00	- —
medium shade, bbls., same basis	lb.	4.25	- —
medium-light shade, bbls., same basis	lb.	4.03	- —
orange shade, bbls., same basis	lb.	NP	- —
lithopone, deep shade, bbls., same basis	lb.	1.76	- 1.83
light shade, bbls., same basis	lb.	1.61	- 1.68
maroon shade, bbls., same basis	lb.	1.85	- 1.92
medium shade, bbls., same basis	lb.	1.71	- 1.78
medium-light shade, bbls., same basis	lb.	1.66	- 1.73
orange-red shade, bbls., same basis	lb.	1.57	- 1.64
Red cadmium lithopone, all shades, in smaller pkgs., 5c. per lb. higher; all prices are 1c. per lb higher ex whse. Los Angeles and San Francisco.			
Carmine No. 40 (see Carmine).			
Crocus martis (see Red, maroon iron oxide).			
Dyes (see Dyes, coaltar).			
Eosin toner, bbls., works	lb.	1.60	- —
Indian, dom., pure, bgs., Bethlehem, Easton, E. St. Louis, N. Y.	lb.	.12½	- —
Red, iron oxide, pure, 98% ferric oxide, bgs., c.l., works	lb.	.12¼	- —
l.c.l., works	lb.	.12½	- —
natural 75%-85% ferric oxide, bgs., l.c.l., Bethlehem, Pa.; Copley, O.; Easton, Pa.; E. St. Louis	lb.	.03¾	- —
Lake C, toner, alizarin, bbls., works	lb.	1.10	- 1.20
Lithol, toner, bbls., works	lb.	.79	- —
rubine, toner, pure, bbls., works	lb.	1.50	- —
resinated, bbls., works	lb.	1.40	- —
Virginia-type, bbls., works	lb.	1.40	- —
Maroon toner, MNPT, kgs., works.	lb.	3.60	- —
Mercury oxide, tech., bbls., 10,000 lbs. works	lb.	4.22	- —
smaller lots, works	lb.	4.24	- —
Metallic, bbls., c.l., works	lb.	.02½	- —
l.c.l. works	lb.	.02¾	- —
Oxide (see Red, iron oxide)			
Persian gulf, bgs., c.l., works	lb.	.06¾	- —
l.c.l., works	lb.	.07	- —
Para toner, bbls	lb.	.85	- —
Chlorinated, kgs	lb.	1.10	- 1.15
Phloxin toner (see Red eosin toner).			
Rhodamine, molybdated, PMA., kegs	lb.	4.90	- —
tungstated, PTMA, works, kegs.	lb.	6.35	- —
Spanish, oxide, bbls., c.l., ex dock	lb.	.05¾	- —
l.c.l., ex dock	lb.	.06	- —
ex whse., New York	lb.	.06½	- —
Toluidin toner, deep shades, kgs., works	lb.	1.40	- —
light shades, kgs., works	lb.	1.40	- —

Prickly Ash Bark—Rochelle Salt

Red, Turkey, bbls., works	lb.	.14½	- —
Tuscan, bbls., frt. equald	lb.	.24½	- .25
Venetian, 15%, bgs., works	lb.	.0350	- .0375
20%, bgs., works	lb.	.04	- —
25%, bgs., works	lb.	.0450	- —
30%, bgs., works	lb.	.0475	- —
35%, bgs., works	lb.	.05	- —
40%, bgs., works	lb.	.0525	- —
Vermilion, Amer., bbls.	lb	32	- —
Quicksilver, ctns.	lb.	3.67	- —
Watchung-type, bbls.	lb	1.95	- —
Red KB base (see Chloro (4)-2-toluidine).			
Red precipitate, NF, powd., fib.	dms	lb. 4.37	4.41
Red saunders, NF powd., bbls	lb.	.35	- —
Rennin, NF, powder	lb.	6.25	- —
Resorcinol, tech. grade, dms., c.l., works	lb.	.82½	- —
l.c.l., works	lb.	.83½	- —
USP, cryst., dms., works	lb	2.75	- —
powd., dms., works	lb	2.95	- —
Monoacetate, NF, dms.	lb.	3.25	- 3.45
Rhatany root, bgs	lb.	.15	- .16
Rhodinol, 5-lb. cans	lb	40.00	-56.00
Rhubarb root, China, whole, cs.	lb.	.65	- .85
powd., bbls.	lb.	.75	- .90
India, whole, bgs	lb.	.30	- .35
powdered, bbls.	lb.	.38	- .40
Riboflavin USP bots., dlvd	kilo.	100.00	- —
readily soluble, bots., dlvd	kilo.	100.00	- —
Rice bran, concentrate, dms. Cedartown, Ga	lb.	.79	- —
Rochelle salt, USP, gran., powd., dms., c.l.	lb.	.32½	- —
5,000-lb. lots, dms., c.l.	lb.	.32½	- —
smaller lots	lb.	.33½	- .38⅛

NEW CHAPTERS IN AN OLD STORY*

From knowledge gained by long experience, Niagara is constantly adding new chapters to the continued story of chemicals in industry.

NIALK® Carbonate of Potash

Unsurpassed for purity and uniformity, NIALK Carbonate of Potash is widely used in the development and production of glass of exceptional clarity and freedom from flaws for both optical and decorative use.

Strict production standards plus continuing application studies have earned for this NIALK product—as for every NIALK product—industry's unqualified acceptance.

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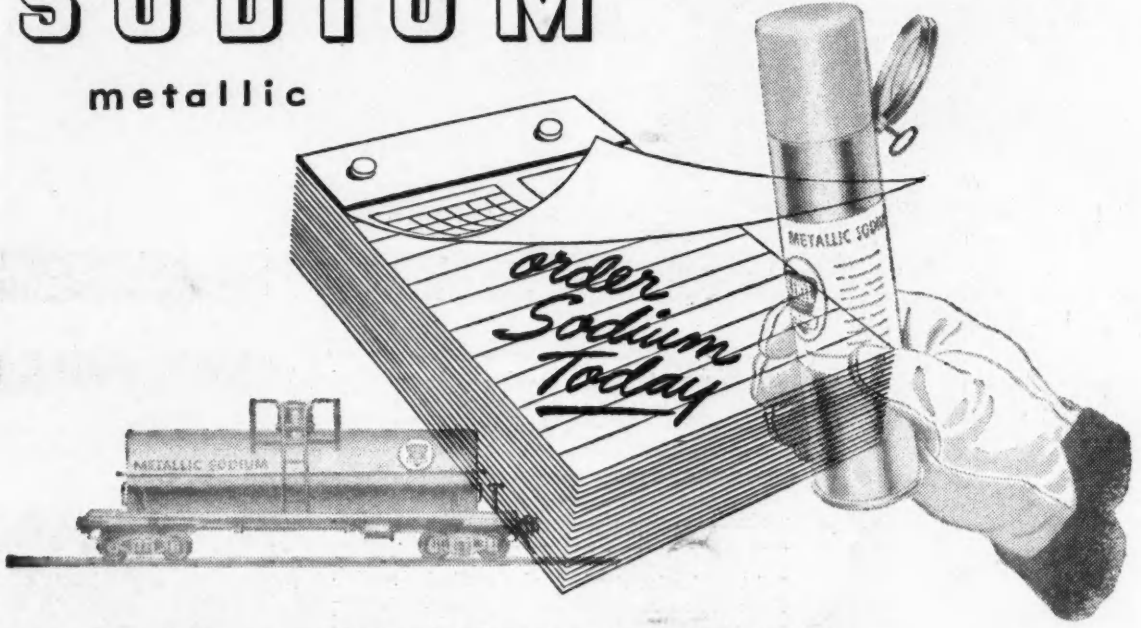
NIALK CARBONATE OF POTASH NIALK PARADICHLOROBENZENE
NIALK CAUSTIC SODA NIALK TRICHLORethylene
NIAGATHAL® (TETRACHLORO PHTHALIC ANHYDRIDE)

Rose Flowers—Sodium Glutamate

Rose flowers, pale, bls.....lb. .45 Nom.
Rosemary flowers, bls.....lb. .95 - .96
Leaves, French, bls.....lb. .11 - .11½
Portuguese, bls.....lb. .07 - .07½
Spanish, bls.....lb. .09 - .09½
Rosin, gum and wood (see Naval Stores, Protective Coatings market).
Rotenone, CP, bbls., works....lb.20.00 - —
tech., bbls., works.....lb.16.50 - —
Rottenstone (see Tripoli)
Rue herb bls.....lb .35 40
Rutin, NF, 25 kilo lots, fib, dms.kilo.27.50 -40.00
10 to 25-kilo lots, fib, dms kilo.28.50 -40.00
1 to 10-kilo lots, fib, dms kilo.30.00 -40.00
Ryania, 100% powd., bgs., works lb .20 —

S

Sabadilla seed, powd., bbls....lb. .60 - —
activated, ground with lime, bbls lb. .35 - .40
Saccharin, USP, gran., soluble, dms., 1000 lb lots lb 1.60 - —
smaller lots lb 1.70 1.80
powd., soluble insoluble, dms., 1000-lb. lots lb 1.65 —
smaller lots lb 1.75 1.95
Saffower, Egyptian, ols.....lb. .60 - .65
Saffron, Mexican bls.....lb .95 .96
Spanish, USP, tins.....lb.21.50 -23.50
Safrol dms.....lb. .72 1.35
Sage, Cretan, bls.....lb. .11½- .12
Cyprus, bls.....lb. .09 .09½
Dalmatian, bls.....lb. .40 - .41
Greek, bls.....lb. .11½- .12
Italian, Officinalis, bls.....lb. .18 - .20
Spanish, stemless, bls.....lb. .12 - .12½
Syrian, bls.....lb. .10½- .11
Turkish, bls.....lb. .12 - .12½
Sago flour, raw, bgs.....lb. .07¾- .08
refined, bgs.....lb. .09¼- .09½
Sal soda (see Soda sal).
Salol NF, gran, bbls., kgs....lb 1.05 - —
fib dms.....lb 1.07 - 1.08
Powdered salol, 25c higher
Salt, rock, paper bgs., c.l. works, 100 lbs. .63 - —
t.c.l. 100 lbs 1.09 - —
Table, vacuum, common, fine, paper bgs c.l. works 100 lbs. .77 - —
l.c.l., works 100 lbs. 1.12½- —
Saltcake, dom., bulk, works, 100% Na_2SO_4 basis ton.17.00 - —
Saltpeter, cryst, bbls, 10-ton lots, 100 lbs.14.40 - —
smaller lots 100 lbs 14.65 -14.90
powd., bbls, 20-ton lots 100 lbs.10.75 - —
smaller lots 100 lbs 12.00 -12.50
gran., bbls, 20-ton lots 100 lbs 9.75 - —
smaller lots 100 lbs 11.10 11.50
NF, gran, dms lb 09¾ .17¾
Saltpeter in bags, 50c, per 100 lbs. less; in kegs, $1 more.
Sandalwood chips, East Indies, bgs., lb .65 - .66
powd., dms lb .75 - .76
Sanguinarine nitrate, bots oz 4.75 5.50
Santonin, NF, dom., dms., cryst., powd., cns lb.95.00 -105.00
imported, cryst., powd., cns lb.109.90 -111.80
Saponin, No. 1, 100-lb dm....lb 2.75 —
Sarsaparilla root, dom, bls....lb .45 - .50
Honduras bls.....lb .38 - .40
Mexican bls.....lb .22 - .25
Sassafras root bark, ord., bls....lb .44 - .45
select bls.....lb .55 .56
Savory, French, bls.....lb .24 - .24½
Spanish bls.....lb .14 - .16
Saw palmetto berries, bgs.....lb .32 - .38
Scammony resin, lump, cns....lb 1.95 - 2.20
powd., cns.....lb 2.05 - 2.30
Schaeffers salt, paste, dms., frt. alld. lb .77 - —
powder bgs, frt alld..lb .80 - —
Scopolamine hydrobromide, USP, bots..oz.13.00 -14.50
Seidlitz mixture, bbls., 5,000 lbs lb 30½ —
smaller lots.....lb .31 - .32
Selenium powd., dms, dlvd lb 3.25 —
Senega root, bls.....lb. 2.20 - 2.30
Senna leaf, Alex., half-leaf, bls..lb. .17 - .18
sifting, bgs.....lb. .15 - .18
Tinnevelly, No. 1, bls.....lb. .19 - .20
No. 2, bls.....lb. .17 - .18
No 3, bls.....lb. .13 - .15
powdered, bls., bxs.....lb. .17 - .18
Pods, bls.....lb. .24 - .25
Serpentaria root, bls.....lb. 4.85 - 5.00
Sesame seed, Nicaragua, hulled, bgs..lb. .20 - .23
natural, bgs.....lb. .13½- .14
Turkish, bgs.....lb. .15 Nom.
Shellac, bleached, bonedry, bgs., 1,500-lb. lots lb. .43 - —
bbls., 1,500-lb. lots.....lb. .44 - —
kgs., 1,500-lb. lots.....lb. .46 - —
refined, bgs., 1,500-lb. lots..lb. .53 - —
bbls., 1,500-lb. lots.....lb. .54 - —
kgs., 1,500-lb. lots.....lb. .56 - —
Bonedry shellac prices for less than 1,500-lb lots, 1c. per lb higher for all packages.
Lemon, No. 1, bgs.....lb. .31 - .33
No 2, bgs.....lb. .29 - .32
Superfine, bgs., 10-bg. lots..lb. .28 - .30
TN, bgs., 10-bg. lots.....lb. .25 - .27
Shellac in 1 to 9 bg. lots, 1c. more.
Shingle stain oil (see Oil, shingle stain).
Silica, amorph., dry-grd., 325 mesh, bgs., c.l., Ill., works ton. 25.00 - —
l.c.l., works.....ton.30.00 -40.00
Silica, hard-quartz, 99½%, 325 mesh, bgs., c.l., works..ton.20.00 - —
l.c.l., works.....ton.25.00 -30.00
140 mesh, bgs., c.l., works. ton.15.00 - —
l.c.l., works.....ton.20.00 - —
Silicon tetrachloride, tech., dms., c.l., works..lb. .16 - —
l.c.l., works.....lb. .20 - .28½
Silver bullion, ingots, cs.....lb. .85¼- —
Cyanide fib. dms., 2,500-oz. lots oz. .77⅜- —
1,000-oz. lots.....oz. .77⅝- —
500-oz. lots.....oz. .77⅞- —
100-oz. lots.....oz. .78⅛- —
Nitrate, CP, cryst., bots., 2,500-oz. lots..oz. .54¾- —
1,000-oz. lots.....oz. .56 - —
500-oz. lots.....oz. .56½- —
250-oz. lots.....oz. .57 - —
USP granular silver nitrate, 4c. per oz. higher.
Proteinate, mild, USP, bots., dms., 1,000-oz. lots oz. 1.05 - —
strong, NF, bots., dms., 1,000-oz. lots oz. 1.00 —
Simaruba bark, bls.....lb. .90 Nom.
Skullcap herb, Eastern, bls.....lb. .50 .65
Western bls.....lb. .30 .35
Skunk cabbage root, bls.....lb. .50 - .60
Slate flour bgs, c.l., works..ton 7.55 -13.00
l.c.l., ex whse.....ton.19.85 -27.35
Sloe berries, bgs.....lb. .24 .28
Smalt, black, ctns.....lb. .15 - —
Blue, ctns.....lb. .18 - —
Snakeroot Canada bls.....lb. .75 - .80
Soapbark, bls.....lb. .22 - .24
crushed, bls., bbls.....lb. .27 - .29
powd., bbls.....lb. .30 - .35
Soda ash, dense, 58% paper bgs., c.l., works 100 lbs. 1.60 —
t.c.l. stock points..100 lbs. 2.35 4.62
bbls., c.l., works....100 lbs. 2.15 —
t.c.l. stock points..100 lbs. 3.35 4.12
bulk, c.l., works 100 lbs. 1.30 —
light, 58% paper bgs., c.l., works 100 lbs. 1.50 —
t.c.l. stock points...100 lbs. 2.75 4.52
bbls., c.l., works....100 lbs. 2.05 —
t.c.l. stock points...100 lbs. 3.25 5.02
bulk, c.l., works....100 lbs. 1.20 —
Soda, caustic, flake, powd., 76%, c.l., works 100 lbs. 3.75 - —
t.c.l. stock points 100 lbs. 4.95 6.77
liquid, 50%, sellers' tanks, works, dry basis..100 lbs. 2.55 - —
50% rayon type tanks, works, dry basis 100 lbs. 2.65 - —
70% sellers' tanks, works, dry basis 100 lbs. 2.65 - —
rayon type, tanks, works, dry basis 100 lbs. 2.75 - —
solid, 76%, dms., c.l., works 100 lbs. 3.35 - —
t.c.l. stock points...100 lbs. 4.55 5.05
Sal, bgs., c.l., works.....100 lbs. 1.40 - —
t.c.l., works.....100 lbs. 1.70 - —
Soda-lime, USP, dms.....lb. .23 - .25
Sodium acetate, anhyd., bgs., c.l., works lb. .12 - —
t.c.l., dms.....lb. .12¾- —
NF, gran., dms., works.....lb. .08½- .16½
Alginate, refined, bbls., works. lb. .83 - —
semi-refined, bbls., works lb. .54 - —
NF, white, powd., dms., ton lots, works lb. 1.30 - —
Sodium antimoniate, bbls., c.l., dlvd. E..lb. .27½- —
t.c.l., dlvd.....lb. .29 - —
Arsenate, dms., c.l., works..lb. .12½- —
t.c.l., dms., works.....lb. .13¾- .14¾
Arsenite, dms., c.l., works..lb. .13½- —
t.c.l., dms., works.....lb. .14¼- .15¼
solution, dms., works....gal. .70 - 1.10
Ascorbate, dms., 25-50 kilo lots kilo.21.00 - —
10 kilo lots.....kilo.21.35 - —
5 kilo lots.....kilo.21.75 - —
1 kilo lots.....kilo.22.00 - —
500 gram lots, bots.....kilo. 22.50 - —
Benzoate, tech., bbls., dms., 100 lbs. or more..lb. .37½- .39
USP, bbls., dms., 100 lbs. or more lb. .44½- .46
Bicarbonate, USP, gran., bgs., c.l., works..100 lbs. 2.50 - —
t.c.l., works 100 lbs. 3.15 - —
powd., bgs., c.l., works 100 lbs. 2.10 - —
t.c.l., works 100 lbs. 2.75 - —
Bichromate, bgs., c.l., works..lb. .11 - —
t.c.l., same basis.....lb. .11¼- .12
Bifluoride, bbls., c.l., works, frt. equald lb. .1375- —
t.c.l., same basis.....lb. .1415- —
Bisulphate, bulk, c.l., works. 100 lbs. 2.00 - —
dms., c.l., works.....100 lbs. 2.65 - 3.85
t.c.l., works.....100 lbs. 3.05 - 3.65
Bisulphite, anhyd., bgs.,c.l., works. 100 lbs. 4.05 - —
t.c.l., works.....100 lbs. 4.30 - —
solut. 35°, bbls., c.l., works. 100 lbs. 1.40 - —
t.c.l., works.....100 lbs. 1.80 - —
Borate (see Borax).
Bromide, USP, bbls., kgs., works, lb. .34 - .35
Cacodylate, NF, dms., jrs.....lb. 8.52 - —
Carbonate, anhydrous (see Soda ash), crystalline, decahydrated (see Soda sal), monohydrated, bgs., c.l., works. 100 lbs. 2.65 - —
t.c.l., works.....100-lbs. 3.05 - —
Carboxymethyl cellulose (see CMC).
Chlorate, cryst., dms., c.l., works. lb. .08¼- —
t.c.l., works.....lb. .08¾- .09¾
Chloride, tech (see Salt), USP, dms.....lb. .05 - .12
Chlorite, tech., dms., works..lb. .58 - .73
Chloroacetate, tech., dms., c.l., works..lb. .24 - —
t.c.l., works.....lb. .25 - .26
Chromate, dms., c.l., works..lb. .12¾- —
t.c.l., same basis.....lb. .13 - .13¾
Citrate, anhyd., dms.....lb. .60 - .65
USP VIII, gran., dms.....lb. .22½- .29¼
USP XIV, gran., dms.....lb. .28 - .34
Sodium citrate USP powd. prices ½c. higher.
Cyanate, dms., 1,000-lb. lots, works lb. .85 - 1.10
smaller lots, works.....lb. 1.00 - 1.25
Cyanide, flake, 96-98% dms., c.l., or 20,000-lb. lots lb. .168 - —
over 1,000 lbs.....lb. .178 - —
100-lb. to 1,000-lb. lots lb. .188 - —
Granular sodium cyanide 1c. higher.
Diacetate, 33-35% acidity, 250-lb. dms., works lb. .14 - —
t.c.l., dms.....lb. .14¾- —
anhydrous, dms., c.l., works..lb. .17 - —
t.c.l.....lb. .17¾- —
Fluoride, white, 90%, bbls., c.l., works lb. .11 - —
t.c.l., works.....lb. .1140- —
95%, bbls., c.l., works.....lb. .1125- —
t.c.l., works.....lb. .1165- —
Fluoracetate, monobasic, 8-oz. tins, 50 to a case, works..lb.12.00 - —
2 to 25 tins to case, works..lb.12.00 -16.50
1 oz. tins, 16 to 64 to case, works..lb.16.50 -21.00
Formate, bgs., c.l., dlvd....100 lbs. 7.10 - —
t.c.l.....100 lbs. 8.15 - 8.45
Gentisate, 100-lb. fib. dms.....lb. 8.50 - —
Gluconate, technical, bgs.....lb. .35 - —
refined technical, dms.....lb. .80 - .83
Glutamate, monobasic, dms., c.l lb. 1.67 - 1.69



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Sodium glycerophosphate, NF, cryst., bbls. lb. 1.80 - 1.95
powder, bbls lb. 1.85 - 2.00
solution, 75%, cbys lb. 1.06 - 1.21
Hydride, dms., works lb. 2.00 - 3.00
smaller lots, dlvd lb. 1.66 - —
Hydrosulphide (see Sodium sulphyhydrate).
Hydrosulphite, dms., c.l., frt. alld. lb. .24½- —
t.c.l., frt. alld lb. .25 - —
Hydroxide, tech. see Soda caustic).
NF, pellets, 100-lb dms., 1 to 100 dms lb. .18½- .23
Hypophosphite, NF, dms, ton lots or less lb. .95 - .98
Hyposulphite, photo grade, bgs., c.l., works 100 lbs. 4.00 - 4.25
t.c.l., same basis 100 lbs. 4.65 7.15
pea crystals, bgs 100 lbs. 4.50 - —
gran., bgs., c.l., works 100 lbs 5.00 —
tech., bgs., c.l., works 100 lbs. 4.00 —
t.c.l., works 100 lbs. 4.40 6.90
Sodium, hyposulphite crystals in bbls. 50c. higher
NF (see Sodium thiosulphate)
Iodide, USP, bots., dms lb. 2.69 - —
Lactate, edible, 50%, dms., cbys., works lb. .21½- —
60% dms. cbys. works lb. .26½- —
tech., 50% dms. cbys., works, lb. .16½- —
Lauryisulphate, dms., c.l., dlvd. lb. .24 - .25
t.c.l., dlvd. lb. .23 - .26
tanks, dlvd. lb. .23 - —
Metabisulphite, see sodium bisulphite
Metaborate, octahydrate, gran., bgs., c.l., works ton.78.50 - —
t.c.l., ex whse ton 124.50 -129 50
Sodium metaborate, octahydrate in bbls., $24.50 per ton higher.
tetrahydrate, c.l., bbls., works, ton.199 50 - —
Metallic, tanks, works lb. .16 - —
bricks, bbls., works lb. .17 - .19
Metanilate, bbls. frt. alld lb. .62 - —
Metasilicate, anhyd., bgs., c.l., works 100 lbs. 4.70 - —
t.c.l., works 100 lbs. 4.95 - 5.45
dms., c.l. 100 lbs. 5.05 - —
t.c.l. 100 lbs 5.30 5.55
Pentahydrate, bgs., c.l., works, 100 lbs. 3.80 - —
t.c.l., bgs., works 100 lbs. 4.15 - 4.55
dms., c.l. works 100 lbs 4.20 - —
t.c.l., works 100 lbs. 4.55 - 4.95
Molybdate, crystals, bbls., works lb. 75 - 85
powd. anhy dms. works lb. 1.05 - 1.06
Monohydrate (see Sodium carbonate, monohydrated).
Naphthionate bbls lb. .70 - —
Nitrate, crude, bgs., c.l., works ton.51.00 - —
bulk, c.l., works ton 47 50 - —
imp., 100-lb. bgs., c.l., Atl., Gulf, Pac. whse ton.57.00 - —
bulk c.l. same basis ton.53.50 - —
Nitrite, bbls., c.l., works, frt. equald lb. .07¼- —
t.c.l., same basis lb. .08¾- —
USP, gran., dms lb. .17 - —
Orthosilicate, anhyd., dms., c.l., works 100 lbs. 5.85 - —
t.c.l., works 100 lbs. 7.60 - —
hydrated, flake, bbls., c.l., works 100 lbs. 4.75 - —
t.c.l. works 100 lbs. 5.50 - —
Oxalate, neut., bgs., works lb. .1040- —
Para-aminobenzoate, dms., 1,000-lb. lots or more lb. 2.40 - —
smaller lots lb. 2.45 - 2.50
Para-animosalicylate, dms, 1,000-lb. lots, frt. adjusted lb. 4.00 - —
smaller lots, same basis lb. 4.05 - 4.50
Pentachlorophenate, briquets, bgs., c.l., works, frt. equald lb. .25½- —
t.c.l., same basis lb. .26½- .28½
pellets, bgs., c.l., same basis lb. .25 - —
t.c.l. same basis lb. .26 - 28
powdered, bgs., c.l., same basis, lb. .24 - —
t.c.l., same basis lb. .25 - 27
Pentachloropnenate 20,000 lbs. min. truckloads ¼c. per lb. over carlot prices
Perborate, USP, tech., bbls., c.l., works lb. .193 - —
t.c.l., works lb. .198 - —
Peroxide, dms., c.l., dlvd, E. of Miss lb. .1860- —
t.c.l., same basis lb. .1910- .2010
Phenolsulphonate, USP IX, gran., dms lb. .44 - .45
powd., dms lb. .47 - .48
Phosphate, dibasic, anhyd., bgs., c.l., works 100 lbs. 7.25 - —
t.c.l., works 100 lbs. 7.65 - —
USP, dried powd., bgs., dms., works lb. .19 - .20½
duohydrate, bgs., c.l., works, 100 lbs. 6.65 - —
t.c.l., works 100 lbs. 7.05 - —
tribasic, cryst., bgs., c.l., frt. equald lb.
t.c.l., same basis 100 lbs. 4.45 - 8.20
Sodium phospnates in bbls. 40c. higher than bgs.
Prussiate yellow, bgs., 10-ton lots, lb. .13½- —
smaller lots lb. .14 - —
monobasic, anhyd., bgs., c.l., works 100 lbs. 8.05 - 8.50
t.c.l., works 100 lbs. 8.45 - 8.70
100 lbs. 4.05 - 5.30
Pyrophosphate, acid, bgs., c.l., works, frt. equald 100 lbs.10.00 -10.75
ferric, dms., 1,500-lb. tots, works lb. .30 - —
smaller tots, works lb. .31 - —
tetrabasic, anhy., bgs., c.l., works, frt. equald 100 lbs. 7.50 - —
t.c.l. frt equald 100 lbs. 7.90 - —
Salicylate, USP, dms lb. .63 - —
Sesquicarbonate, bgs., c.l., works, 100 lbs. 2.10 - —
t.c.l., dlvd., zone 1 100 lbs. 3.85 - 4.10
zone 2 100 lbs. 4.10 - 4.35
zone 3 100 lbs. 4.40 - 4.65
zone 4 100 lbs. 5.10 - 5.35
Sales zones are: (1) All States E. of Miss. R. and N. of south bound of Ky. and Va.; Ala., La., and Miss. south of 31° Tex. E. of 100°; S. of 31° Fla.; also Me., N. H., and Vt., in which there are special county zones: Davenport, Ia. and St. Louis; (2) Ark. E of 98° Ga.; Iowa (except Davenport), Minn.; Mo. (except St. Louis), Neb., E. of 98° N. C., S. C., Tenn. and Tex. N. of 31° and E. of 100° (except Wichita Falls); also Ala., La. and Miss. No. of 31°; (3) Ark. W of 98°, Kan., Neb. W. of 98°; N. D., Okla., S. D., Tex., W. of 100° (including Wichita Falls excluding El Paso); (4) Ariz., Colo., Idaho, Mont., Nev., N. M., Utah, Wyo. and El Paso, Tex.
bbls., c.l. works 100 lbs. 2.45 - —
Sesquisilicate, anhy., dms., c.l., works 100 lbs. 6.50 - —
t.c.l., works 100 lbs. 7.00 - —
hydrated bgs., c.l., works 100 lbs. 4.25 - —
t.c.l., bgs., works 100 lbs. 4.60 - 5.00
Silicate, liquid, 40° 1:3.2, turbid., dms., c.l., works 100 lbs. 1.25 - —
t.c.l., works 100 lbs. 1.60 - 2.00
tanks, works 100 lbs. .90 - .93
47°, turbid., 1:2.9, dms., c.l., works 100 lbs. 1.80 -1.90
t.c.l., dms., works 100 lbs. 2.15 - 2.55
tanks, works 100 lbs. 1.45 - 1.55

Sodium silicate, liq., 52°, turbid., 1:2.4, dms., c.l., works lb. 2.10 - —
t.c.l., works 100 lbs. 2.45 - 2.85
tanks, works 100 lbs. 1.75 - —
solid, 1:3.2, bgs., works ton.52.50 -55.00
Silicofluoride, bgs., c.l., works lb. .070 - —
t.c.l., works lb. .075 - .075
Sodium silicofluoride in dms., 4 10c. higher.
Stannate, dms., works, frt. alld. E lb. .660 - .716
Stearate tech., dms., works lb. .43 - .44
USP, dms., works lb. .70 - .75
Sulphanilate, bbls., works lb. .22 - —
Sulphate, NF, VII, dried, powd., dms lb. .22½- —
tech., anhyd., bgs., c.l., works, frt. allowance to $10. 100 lbs. 2.25 - —
t.c.l., works, same basis 100 lbs 2.50 3.00
rayon grd. bgs., c.l., works ton.27.00 - —
t.c.l., works ton.33.00 - —
USP, cryst., fib dms lb. .17½- .18
gran., fib dms lb. .17½- .19
Sulphide, flake bbls, c.l., works, E. frt. equald ton.100.00 - —
t.c.l., same basis ton.108 00 - —
fused, bbls, c.l., works, E. frt equald ton.88.50 - —
t.c.l., same basis ton.98 50 - —
Sulphite anhyd., bgs., c.l., works 100 lbs. 2.73 - —
t.c.l., same basis 100 lbs 2.23 - 5.58
regular, cryst., bgs., c.l., works 100 lbs. 4.80 - —
t.c.l., same basis 100 lbs. 5.20 - 6.45
powder, bbls., c.l., works 100 lbs 6.75 - —
t.c.l., works 100 lbs. 7.25 - —
Sulphocyanide, CP (see Sodium thiocyanate).
Sulphoricinoleate, bbls lb. No prices.

Sodium sulphydrate, flake, 70-72%, dms., works, c.l. ton.115.00 - —
t.c.l., works ton.125.00 - —
liquid 34-40%, 100% basis, tanks, works ton100.00 -117.60
Tetraborate (see Borax).
Tetrasulphide, liquid, 40%, dms., c.l., works lb. .03½- —
t.c.l., works lb. .04 - —
Thiocyanate, CP, dms lb. .55 - .65
tech., dms. works lb. .50 - —
Thiosulphate, NF cryst., bbls lb. .12½- —
tech (see Sodium hyposulphite).
Titanate, ctns., c.l., works lb. .10½- —
5 tons, works lb. .10¾- —
1 ton or less, works lb. .11 - —
Trichloroacetate, 90%, 100-lb. dms., c.l., frt. alld., E lb. .37½- —
t.c.l., frt. adjusted, E lb. .39½- —
50-lb. dms., c.l., frt. alld., E lb. .38 - —
t.c.l., frt. adjusted, E lb. .40 - —
10-lb. cns., c.l., frt. alld., E lb. .44 - —
t.c.l., frt. adjusted, E lb. .46 - —
Prices West of the Rockies are 1¾c. per pound higher
Tripolyphosphate, bgs., c.l., works, frt. equald 100 lbs. 7.85 - —
t.c.l., same basis 100 lbs. 8.25 - —
Trisilicate, powd., 1:3.2, bgs., c.l., works 100 lbs. 7.75 - —
t.c.l., works 100 lbs. 8.50 - 8.90
dms., c.l., works 100 lbs. 8.15 - —
t.c.l., works 100 lbs. 8.90 - 9.30
Tristearate, fib. dms., 20,000 lbs., works lb. .33 - —
10,000 to 20,000 lbs., works lb. .35 - —
smaller lots, works lb. .38 - .40
Tungstate, tech., kgs., dlvd. E lb. 3.15 - —

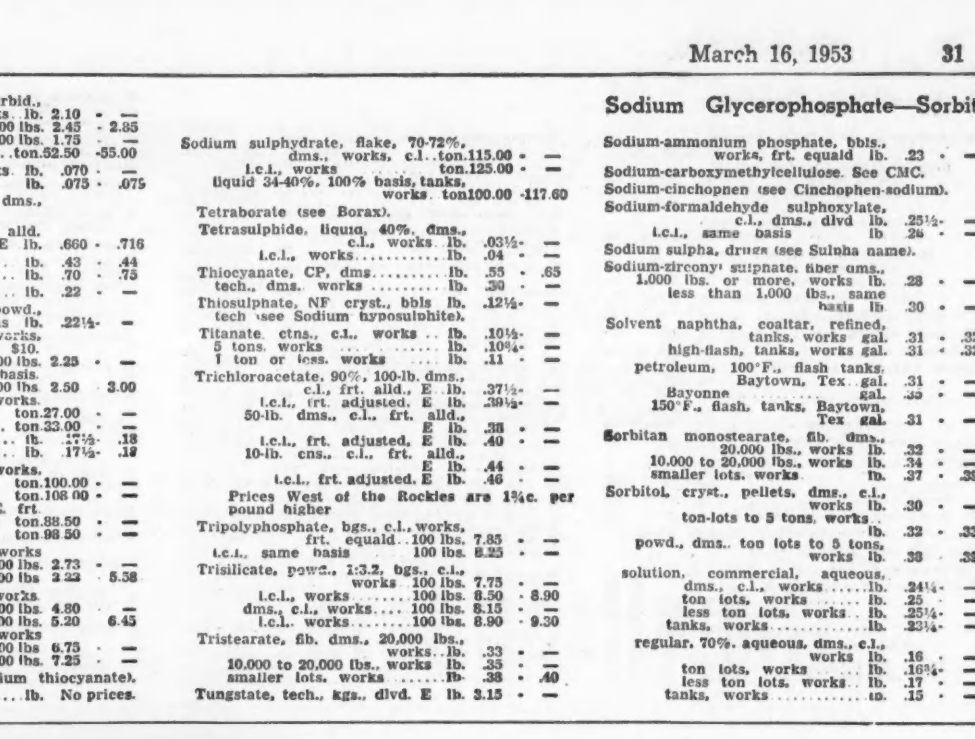
Sodium Glycerophosphate—Sorbitol

Sodium-ammonium phosphate, bbls., works, frt. equald lb. .23 - —
Sodium-carboxymethylcellulose. See CMC.
Sodium-cinchopnen (see Cinchophen-sodium).
Sodium-formaldehyde sulphoxylate, c.l., dms., dlvd lb. .25½- —
t.c.l., same basis lb .26 - —
Sodium sulpha, drugs (see Sulpha name).
Sodium-zirconyl sulphate, fiber dms., 1,000 lbs. or more, works lb. .28 - —
less than 1,000 lbs., same basis lb .30 - —
Solvent naphtha, coaltar, refined, tanks, works gal. .31 - .32
high-flash, tanks, works gal. .31 - .32
petroleum, 100°F., flash tanks, Baytown, Tex. gal. .31 - —
Bayonne gal. .30 - —
150°F., flash, tanks, Baytown, Tex gal. .31 - —
Sorbitan monostearate, fib. dms., 20,000 lbs., works lb. .32 - —
10,000 to 20,000 lbs., works lb. .34 - —
smaller lots, works lb. .37 - .39
Sorbitol, cryst., pellets, dms., c.l., works lb. .30 - —
ton-lots to 5 tons, works lb. .32 - .33
powd., dms., ton lots to 5 tons, works lb. .38 - .39
solution, commercial, aqueous, dms., c.l., works lb. .24¼- —
ton lots, works lb. .25 - —
less ton lots, works lb. .25¼- —
tanks, works lb. .23¼- —
regular, 70%, aqueous, dms., c.l., works lb. .16 - —
ton lots, works lb. .16¾- —
less ton lots, works lb. .17 - —
tanks, works lb. .15 - —

"WHERE DO YOU GET YOUR ALKALIES, JIM?

"I ALWAYS GO TO SOLVAY *FIRST* FOR ALKALIES...*Here's why...*

REG. U. S. PAT. OFF.



SOLVAY

Soda Ash
Caustic Soda
Caustic Potash
Chlorine
Potassium Carbonate
Calcium Chloride
Sodium Bicarbonate
Specialty Cleansers
Sodium Nitrite
Monochlorobenzene
Para-dichlorobenzene
Ortho-dichlorobenzene
Ammonium Bicarbonate
Ammonium Chloride
Sesquicarbonate of Soda

...First off, I've found that Solvay always takes care of its customers—in good times and bad! I know I can really depend on Solvay in a pinch.

I also like the treatment I get from the sales staff—always courteous and helpful. And it's convenient doing business with Solvay because one of their sales offices is located near me.

In addition, I feel that when I buy alkalies, I might as well get the "extras" that Solvay offers ...like the Solvay Technical Bulletins that give you the kind of information no other technical bulletins have. Same with the Solvay Technical Service staff, a group that operates on an industry-wise basis, with men who are experts in individual industries.

Then Solvay has over 200 local stock points that practically cover the country, and three centrally located plants. This makes for better delivery service.

And, of course, I know I get dependable quality and uniformity when I order from America's oldest and largest producer. That's why I always go to *Solvay first* for alkalies.

SOLVAY PROCESS DIVISION

Allied Chemical & Dye Corporation
61 Broadway, New York 6, N. Y.

BRANCH SALES OFFICES:

Boston • Charlotte • Chicago • Cincinnati • Cleveland • Detroit
Houston • New Orleans • New York • Philadelphia • Pittsburgh
St. Louis • Syracuse

Soybean Meal—Thiophene

Soybean meal, 44% bulk, Decatur, ton 67.00 - 68.00
protein chemically isolated 40,000 to 60,000 lbs., dlvd lb. .23½- —
20,000 to 40,000 lbs., same basis lb. .23¾- —
100 to 20,000 lbs., same basis lb. .24¼- —
mechanically refined, bgs., 40,000 lbs., same basis lb. .0605- —
20,000 lbs., same basis lb. .0620- —
smaller lots same basis lb. .0635- —
Sparteine sulphate, cns oz. .85 - 1.25
Spearmint leaves, bls lb. .60 - .65
Spikenard root, bls lb. .45 - .46
Spruce extract liq. reg., tanks, works lb. .01¾- —
powd. super bgs., c.l., works lb. .05½- —
l.c.l., works lb. .05¾- —
Squaw vine leaves, bls lb. .45 - .46
Squill red fortified powd., bbls. boxes lb 1.60 - —
white, bls lb. .12 - .15
powd., bbls., bxs lb. .18 - .21
St. John's bread edible, bls lb. .10 - 13
Stannous chloride (see Tin chloride stannous)
Star root (see Helonias root)
Stargrass root (see Aletris root)
Starch, corn, pearl, paper bgs., c.l., N. Y. 100 lbs. 7.14 - —
l.c.l. 100 lbs. 7.29 - —
powd., paper bgs., c.l. 100 lbs 7.26 - —
l.c.l. 100 lbs. 7.32 - —
Prices for corn starch in cotton bags 25c. per 100 lbs. higher.

Starch, potato, dom., Idaho, bgs., c.l., works lb. .08½ Nom.
Maine, bgs., c.l., works lb. .07½- —
l.c.l., spot lb. .09½- .10¼
Rice, l.c.l., bgs lb. .16 - .17
Wheat, bgs. lb. .0755- .0780
Stavesacre seed, bgs lb. .60 - .61
Stearin, oleo (see Oleostearin).
Stillingia root, bls lb. .30 - .31
Stomach substance, not USP, fib. dms lb. 2.95 - 3.10
Stoneroot, bls lb. .07½ 08
Storax, USP, cs lb. .90 - 2.05
Stramonium leaves, bgs lb. .16 - .18
Streptomycin, either hydrochloride or sulphate, bulk, gram .17 - —
Strontium bromide, NF, cns., dms. lb. .77 - .78
Carbonate, 92%, dms lb. .23 - —
Chromate, bbls., works lb. .46 - —
Iodide jars, 25-lb lots lb. 3.37 - —
Nitrate, bbls., cs, works lb. 10¼ .11
Oxalate, bbls, works lb No prices.
Salicylate NF dms lb 1.65 —
Sulphate, air floated 90% 325 mesh bgs., works ton 56.70 -66.15
Strontium-calcium sulphide phosphorescent, dms., works lb 2.80 2.85
Strophanthin, NF bots oz. 25.00 -25.50
Strophanthus seed, Komba, biologically tested, bgs lb. 3.25 - —
Strychnine, NF powd. cans, 100 ozs oz. 1.10 - —
Phosphate, NF, 100 ozs oz. 1.14 - —
Sulphate, USP, powd., cans, 100 ozs oz. .85 - —
Styrene monomer, dms., c.l., works lb. .22¼- —
l.c.l., works lb. .23¼- —
tanks, works lb. .21 - —

Styrolyl acetate, bots lb. 1.45 - 1.75
Sucrose octa-acetate, denaturing grd., 100-200-lb. bgs., l.c.l., works lb. .71 - —
Sugar coloring (see Caramel coloring).
Sugar of milk (see Milk sugar).
Sulphabenzamide, dms lb 4.00 - 4.50
Sodium, dms lb 4.10 - 4.60
Sulphacetamide, fiber dms lb 4.00 - 4.20
Sodium, fib. dms lb 5.00 - 5.20
Sulphadiazin, USP, microcrystals, dms lb. 10.60 -11.10
powder, dms lb. 10.25 -10.75
Sulphadiazin-sodium, USP, dms lb. 11.25 -11.75
micro crystals, dms lb. 10.60 -11.10
Sulphaguanidin, USP, dms lb. 4.00 - 4.50
Sulphamerazin, USP, micro crystals, lb. 10.65 -11.15
Sulphamerazin-sodium, USP, dms., lb. 11.25 -11.75
Sulphamethazine, micro crystals, dms lb 8.90 9.40
powder, dms lb 8.50 9.00
Sulphanilamide, USP, 30-80 mesh., dms lb. 1.40 1.60
microcrystals, dms lb. 1.70 1.90
powder, dms lb. 1.30 - 1.50
Sulphanilamidoquinoxaline, veterinary, dms lb. 6.50 - 6.75
Sulphapyridin, NF powd. bots. tins. lb. 7.00 - 7.50
Sulphapyridin-sodium monohydrate, dms lb. 7.50 8.00
Sulphathiazole, USP, micro crystals, dms lb. 3.15 - 3.30
powder, dms lb. 2.80 - 2.95
Sulphathiazole-sodium, USP, dms., lb. 2.80 - 2.95
Sulphur, commercial, flour, bgs., mines 100 lbs. 2.05 - —
bbls., mines 100 lbs 2.20 - —
lump, bgs., mines 100 lbs 1.70 - —
bbls., mines 100 lbs 2.00 - —

Sulphur, crude, bulk, c.l., mines, contract long ton. 21.00 -22.00
f.o.b., vessels, Gulf ports, export long ton. 25.00 -27.50
domestic and Canada long ton. 22.50 -23.50
refined, flowers, USP, bgs., mines, 100 lbs. 3.60 - —
bbls 100 lbs. 4.75 - —
flour, light, bgs., mines 100 lbs. 3.35 - —
bbls, mines 100 lbs. 4.25 - —
lump, bgs., mines 100 lbs. 2.90 - —
rolls, bgs., mines 100 lbs. 3.35 - —
bbls., mines 100 lbs. 3.80 - —
salt block, bgs., mines 100 lbs. 3.10 - —
virgin block bbls., mines 100 lbs. 3.05 - —
rubbermakers, com'l, regular bgs., mines 100 lbs. 2.25 - —
bbls., mines 100 lbs. 2.40 - —
98-100% passing through 325 mesh, bgs., mines 100 lbs. 2.25 - —
bbls., mines 100 lbs. 3.40 - —
refined, bgs., mines 100 lbs. 2.85 - —
bbls., mines 100 lbs. 2.95 - —
treated, 2.5% mineral oil, bgs., mines 100 lbs. 2.85 - —
bbls., mines 100 lbs. 3.80 - —
10% pine tar, bgs., mines, 100 lbs. 3.65 - —
Dichloride, dms., c.l., works, frt. equald lb. .03½- —
l.c.l., same basis lb. .04¼- —
tankcars, same basis lb. .03¼- —
Dioxide liquid com'l, cyls, works lb. .09 - —
multi unit cars, works lb. .0535- —
tanks, works lb. .045 - —
refrigeration cyls., l.c.l., dlvd. lb. .20 - .36
Monochloride, 55-gal, dms., c.l., frt. equald lb. .03½- —
l.c.l., same basis lb. .04¼- —
tanks, same basis lb. .03¼- —
washed, NF bot lb. .11 - —
Sumac leaf, 28%, bgs., ex-dock, short-ton. 120.00 - —
ground, same basis ton. 120.00 - —
Superphosphate, run-of-pile, under 22% a.p.a., pulv., bulk, Baltimore unit-ton. .86 - —
Carteret, N. J. unit-ton. .86 - .89
triple, 48% or more, a.p.a. pulv., bulk, East Tampa, Fla unit-ton. .91 - —
Sweet basil, California, bgs lb. 1.05 Nom.
imported, bgs lb. 1.35 - —

T

2,4,5-T, dms., c.l., works lb. 1.40 - —
l.c.l., works lb. 1.45 - 1.50
isopropyl ester dms. c.l., works lb. 1.45 - —
l.c.l., works lb. 1.50 - 1.57
Talc, dom., ordinary, Calif., grd., bgs., c.l., works ton. 25.00 -35.00
Vermont off color, grd., bgs., c.l., works ton. 14.00 - —
l.c.l., works ton 17.50 - —
fibrous, New York, grd., bgs., c.l., works ton. 25.00 -30.00
l.c.l. ton. 28.00 -35.00
99.5% 325 mesh, bgs., c.l., works ton. 27.00 - —
l.c.l., works ton. 30.00 -32.00
99.95%, micronized, bgs., works, ton. 36.00 - —
imp Canadian, grd., bgs., c.l., mines ton. 15.25 -35.00
Tallow, edible, tanks, dlvd lb. .07¼- —
inedible, extra lb. .05¼- —
fancy lb. .05⅝- —
No. 1 lb. .04¼- —
special lb. .04¼- —
sulphonated, 25%, dms., l.c.l. lb. .05⅜- .06
50%, dms., c.l. lb. .06½- .06¾
Tamarind, W.I., bbls lb. .11 - .12
Tankage, animal, feeding, 9-11% ammo, bulk unit-ton. 5.25 - —
Chicago unit-ton. 6.00 - —
Tansy leaves bls lb. .25 - .30
Tapioca flour, high grade, ex whse., bgs. lb. .14½- .17
Tar acid oil, 15-18%, dms., c.l., frt. equald gal. .47 - .49
l.c.l., same basis gal. .50 - .51
tanks, same basis gal. .39 - —
25-28%, dms., c.l., same basis, gal. .54 - .56
l.c.l., same basis gal. .57 - .58
tanks, same basis gal. .46 - —
50-53%, dms., c.l., same basis, gal. .70 - .72½
l.c.l., same basis gal. .73½- .74½
tanks, same basis gal. .62½- —
Tar, coal (see Coaltar).
Pine (see Pinetar).
Tarragon herb, bgs lb. .45 - .50
Leaves, bgs lb. .65 - .70
Tartar emetic, tech., gran. or powd., bbls., kgs lb. .56 - .59
dms. lb. .57 - .60
USP, powd., bbls., dms., kgs lb. .61 - .62
Terpin hydrate com'l bbls., c.l lb. .24½- —
l.c.l. lb. .25 - .25½
NF, cryst., fib. dms lb. .60 - .62
powd., b. dms lb. .65 - .69
Terpineol alpha (see A).
commercial, dms., c.l., South lb. .13½- —
l.c.l., South lb. .14 - —
extra, dms lb. .41 - .60
prime, dms lb. .30 - .45
Terpinglycol ether, dms., c.l., works. lb. .23½- —
l.c.l. works lb. .25½- —
tanks, works lb. .22 - —
Terpinyl acetate, extra, ens., dms. lb. .55 - .70
prime, dms lb. .55 - .60
Propionate, dms lb. 1.75 - 2.00
Terra alba (see Gypsum).
Testosterone, USP, 100 gms., bots. gm. .88 - —
Propionate, USP, 100 gms., bots. gm. .98 - —
Tetrachloroethane, dms., works lb. .12½- —
Tetrachloroethylene, tech. (see Perchloroethylene).
USP, 55-gal, dms., works lb. .20½- .21¼
smaller, dms., works lb. .23½- .25
Tetraethyl orthosilicate, dms., c.l., works lb. .71 - —
l.c.l. lb. .72 - —
Pyrophosphate, 40%, cns., dms., dlvd lb. .71¼ - —
Tetraethylenepentamine, dms., c.l., dlvd., E lb. .57½- —
l.c.l., dlvd. E lb. .58½- —
tanks, dlvd E lb. .56 - —
Tetrapotassium phosphate, (see Potassium phosphate).
Tetrasodium pyrophosphate (see Sodium pyrophosphate).
Thalium metal, dlvd lb. 12.50 -15.00
Sulphate, 99%, bots., dlvd lb. 10.50 -13.00
Theobromine fib. dms lb. 3.75 - —
Salicylate, fib. dms lb. 4.25 - —
Sodio-salicylate, fib. dms lb. 3.10 - 3.15
With sodium acetate, USP, dms. lb. 3.80 - 3.85
Theophylline, anhydrous, or USP, 100-lb. dms lb. 4.40 - 4.45
Thiamine hydrochloride, USP, regular or ampul-type, fib. dms. kilo. 135.00 - —
Mononitrate, USP, fib. dms. kilo. 135.00 - —
Thiocarbanilide, dms lb. .44 - .51
Thiodiphenylamine (see Phenothiazine).
Thiophene, dms., c.l., works lb. 1.98¾- —
l.c.l., same basis lb. 2.00 - —

• SODIUM BICHROMATE
• SODIUM CHROMATE
• POTASSIUM BICHROMATE
• SODIUM SULPHATE

over 40 years of progress in chemicals

Natural BICHROMATES CHROMIUM PRODUCTS

NATURAL PRODUCTS REFINING CO. • JERSEY CITY 5, N. J.

NP128

SKINNER & SHERMAN INC

CHEMISTS AND ENGINEERS
246 STUART STREET
BOSTON 16 • MASSACHUSETTS

Report On Wax February 5, 1953

To Warwick Wax Company, Inc.,
Subsidiary of Sun Chemical Corporation
1010 - 44th Avenue, Long Island City, New York

Our Case No. 44899 Sample No. (s) Date Rec'd February 5, 1953

How Received By Mail

Instructions Test for manganese content in accordance with specifications of Rubber Tile Manufacturers Association.

Sample (s) Marked

Results:

Sample marked:	Manganese %
Cardis Wax #1	Less than .0001
Cardis Wax #314	.0004
Cardis Wax #319	Less than .0001
Cardis Wax #320	.0003

COMMENT:

The manganese content of the above waxes is well below the maximum allowable manganese content of .0005% specified by the Rubber Tile Manufacturers Association.

Respectfully submitted,

SKINNER & SHERMAN, INC.

Robert A. Sullivan

Robert A. Sullivan
Director Chemical Department

RAS:LS

This report is rendered upon the condition that it is not to be reproduced wholly or in part for advertising or other purposes over our signature or in connection with our name without special permission in writing.

Manganese content practically nil!

Meets specifications of RUBBER TILE MANUFACTURERS ASSOCIATION for manganese content!

see Skinner & Sherman laboratory report

CARDIS WAX

IN EMULSION POLISHES means PROVED QUALITY, PROVED SAFETY

WARWICK WAX COMPANY, INC., SUBSIDIARY Sun CHEMICAL CORPORATION

Whatever your product or problem—remember our technical men are at your service. For samples, for technical data, for expert help on formulations–write, wire, or phone Warwick today. Same-day or overnight delivery from stocks in principal cities.

10th STREET AND 44th AVENUE, LONG ISLAND CITY, N. Y.

Thiourea—Vitamin A, Synthetic, Acetate

Thiourea, tech., dms., c.l., works lb. .43½- —
l.c.l., works lb. .45½- —
100-lb. lots or more.
Thorium nitrate, purified, fib, dms., works lb. 3.50 - —
Threonine dextro laevo, bots., 1-kilo lots kilo. 600.00 - —
Thyme, French, bgs. lb. .22 - .25
Spanish, bls. lb. .09 - .09½
Thymol, fib, dms lb. 3.10 - —
Iodide, NF, dms lb. 6.80 - —
Timbo root (see Cube root).
Tin chloride, stannous, anhyd., dms. works lb. .98½- 1.23
Crystals, hydrous, bgs., bbls., works lb. .99 - 1.01
Metal lb. 1.21½- —
Oxide, dms lb. 1.23 - 1.24
Sulphate, stannous, bbls lb. 1.09 - 1.11
Tetrachloride, anhyd., dms., works, lb. .89 - .90
Titanium dioxide anatase, chalk resistant, bgs., c.l., divd. lb. .21 - .21½
l.c.l., divd. lb. .22 - .22½
regular, bgs., c.l., divd lb. .21 - .21½
l.c.l., divd. lb. .22 - .22½
ceramic, bgs., c.l., divd lb. .21 - .21½
l.c.l., divd lb. .22 - .22½
metallurgical, natural granular, bgs., c.l., f.o.b. Jacksonville, Fla ton. 110.00 - —
c.l., Niagara Falls, N. Y. ton. 127.50 - —
5 tons, same basis ton. 132.50 - —
ton lots, same basis ton. 137.50 - —
Milled titanium dioxide $7.50 per ton higher.
rutile, non-chalking, bgs., c.l., divd. E lb. .23 - .23½
l.c.l., divd. E lb. .24 - .24½
Hydride, cns., works lb. 7.95 - 9.00
Titanium, pigment, calcium-rutile, base, bgs., c.l., divd. lb. .08 - .08½
Titanium dioxide and pigment in bbls., ¼c. higher, Pac. coast, c.l., divd. L.c.l., ex whse., ½c. higher.
Tetrachloride, tech., dms., c.l., works lb. .45½- —
l.c.l., works lb. .48½- .56½
tankcars, works lb. .44½- —
Tolidin base, distilled, kgs lb. 1.30 - —
Tolu balsam, cns., dms lb. 2.85 - 4.25
Toluene (see Toluol).
Toluol, coaltar, industrial and nitration, tanks, works:—
Bethlehem, Pa gal. .32 - —
Birmingham dist gal. .30 - —
Chicago dist gal. .33 - —
Cleveland dist gal. .32¾- —
Geneva, Utah gal. .26 - —
Hamilton, Ohio gal. .32 - —
Johnstown, Pa gal. .30 - —
Lackawanna, N. Y. gal. .33 - —
Lone Star, Tex gal. .35 - —
Lorain, Ohio gal. .31 - —
Minnequa, Colo gal. .32 - —
Philadelphia, Pa gal. .33½- —
Pittsburgh dist gal. .30 - —
Sparrow's Point, Md gal. .32 - —
Syracuse, N. Y. gal. .30½- —
Terre Haute, Ind gal. .33½- —
Wyandotte, Mich gal. .34¼- —
Youngstown, Ohio gal. .30½- —
Petroleum, industrial, 2° tanks, works, Albany, N. Y. gal. .33 - —
Bayonne, N. J. gal. .33 - —
Baytown, Tex gal. .31 - —
Chicago, Ill gal. .33 - —
Detroit, Mich gal. .33 - —
Philadelphia, Pa gal. .33 - —
Providence, R. I. gal. .33 - —
Wood River, Ill gal. .33 - —
Tonga, 50% bark and vine, bls. lb. .60 - .65
Tonka beans, Angostura, cks. lb. 1.75 - 1.80
Brazilian, Surinam, cs lb. 1.10 - 1.25
Totaquine, 100-oz lots, cns oz. .42 - —
Toxaphene, dms., c.l., works lb. .17 - —
truckloads, works lb. .17 - —
ton to truckloads, works lb. .20 - —
less than ton, lots, works lb. .23 - —
Triacetin, dms., c.l., divd. E, of Rockies lb. .42¾- —
l.c.l., same basis lb. .43¾- .45½
tanks, same basis lb. .41 - —
Tributyl citrate, tech., dms., c.l. lb. .40½- —
l.c.l. lb. .41½- —
tanks lb. .39 - —
Phosphate, dms., c.l., frt. alld lb. .51¾- .63½
l.c.l., same basis lb. .52¾- .64½
tanks lb. .50 - —
Tributylamine, dms., c.l., works, lb. .73½- —
l.c.l., same basis lb. .75 - —
tanks, same basis lb. .72 - —
Trichlorobenzene dms., c.l., works, frt. alld lb. .12½- —
l.c.l., frt. alld lb. .13½- —
tanks, frt. alld lb. .11 - —
Prices in the West 1¼c. higher.
tanks, works lb. .11½- —
Trichloroethylene, dms., c.l., or truckloads, works, frt. equald lb. .11 - —
divd. E lb. .12¼- —
l.c.l., works, frt. equald lb. .11½- —
divd. E lb. .13½- —
tanks, works, frt. equald lb. .10 - —
divd. E lb. .11 - —
Trichloroethane, dms., c.l., works lb. .13 - —
l.c.l., works lb. .13½- —
Tricholine citrate, 65% solut., ret. cbys., works, frt. adjusted. lb. 1.40 - 1.45
Tricresyl phosphate coaltar, dms., c.l., divd. lb. .34¾- —
l.c.l., divd. lb. .35¾- —
tanks, divd. lb. .33 - —
petroleum dms., c.l., divd. lb. .34¾- —
l.c.l., divd. lb. .35¾- —
tanks divd. lb. .33 - —
Triethanolamine, dms., c.l., divd. E lb. .26¼- —
l.c.l., same basis lb. .27¼- —
tanks, same basis lb. .24¼- —
Triethylamine ams., c.l., works, divd. E lb. .45½- —
l.c.l., same basis lb. .46½- —
tanks, same basis lb. .43¾- —
Triethyl citrate, tech., dms., c.l. lb. .37½- —
l.c.l. lb. .38½- —
tanks lb. .36 - —
Phosphate dms., works, c.l. lb. .38 - —
l.c.l., same basis lb. .39 - —
tanks, same basis lb. .37 - —
Triethyleneglycol, dms., c.l., divd. E. lb. .23¼- —
l.c.l., same basis lb. .24¼- —
tanks, same basis lb. .21½- —
Triethylenetetramine, dms., c.l., divd. E lb. .48½- —
l.c.l., divd. E lb. .49½- —
tanks, divd. E lb. .47 - —
Trimethylamine, 25-40%, ams., c.l., works, frt. equald, 100% basis lb. .38 - —
l.c.l., works, frt. equald, 100% basis lb. .38½- —
tanks, works, frt. equald, 100% basis lb. .33 - —
Tripentaerythritol, bgs., c.l., works, lb. .36½- —
l.c.l., same basis lb. .39½- —
Triphenyl phosphate, bbls., c.l., frt. equald lb. .37 - .39
l.c.l., frt. equaled lb. .38 - .40
Triphenylguanidine, bbls., works lb. .90 - —
Tripoli, air floated, bgs., c.l., works, lb. .02 - —
double grd., bgs., c.l., works lb. .0185- —
single-grd., bgs., c.l., works lb. .0175- —
Tripropyleneglycol, dms., c.l., frt. alld lb. .26¼- —
l.c.l., frt. alld lb. .27¼- —
tanks, frt. alld lb. .24½- —
Trisodium fluoroacetate (see Sodium fluoroacetate, tribasic).
Trisodium phosphate (see Sodium phosphate tribasic).
Trypsin, pharmaceutical, 1:80, dms., works lb. 4.00 - 5.50
Tryptophane, dextro-laevo, fib, ctns. works kilo. 165.00 - —
Tuba root (see Cube root).
Tungsten metal, powd., 99.9%, dms. works lb. 7.75 - —
Turmeric root, Alleppey, bgs. lb. .21 - .21½
Haitian, bgs. lb. .10 - .10½
Madras, bgs. lb. .10 - .10½
Turpentine, gum and wood (see Protective Coatings market, Naval Stores).
Tyrothricin, USP, bots gram. 1.00 - 1.10

U

Urethane, USP dms lb. 1.50 - —
Unicorn root, false (see Helonias root)
True (see Aletris root).
Uranium oxide, black, bgs lb. 2.55 - —
yellow, kgs lb. 1.65 - —
Urea, dom., 46%. N bgs., c.l., wks. lb. .05½- —
l.c.l., works lb. .06 - —
44% N, bgs., c.l., 20 tons, frt alld. Kan., Neb., N. Dak., Okla., S. Dak., Tex., and east ton. 142.00 - —
l.c.l., divd ton. 146.00 - —
Urea-ammonia liquor, A and B grades, N basis, tankcars, Belle, W Va ton. 120.00 - —
C and D grades, tankcars, same basis ton. 118.50 - —
37 grade, tankcars, same basis. ton. 147.50 - —
Uva ursi leaves, bls lb. .12 - .14

V

Valerian root, Belgian, NF, bls. lb. .36 - .40
Valine, dextro-laevo, dms., works lb. 21.00 - 27.50
Valonia, beards, 40-42% tannin, bgs., ex dock ton. 85.00 - —
cups, 28-30% tannin, bgs., ex dock. ton. 64.00 - —
extract, powd., bgs., ex dock, duty extra lb. .10 - —
Vanadium pentoxide, CP, bgs., cns, contract, works lb. 7.00 - —
tech., dms., works lb. 1.28 - 1.33
Vanilla, beans, Bourbon, tins lb. 4.50 - 4.75
Mexican, cuts, tins lb. 4.00 - 4.25
whole, tins lb. 4.50 - 5.00
Tahiti, cs lb. 3.00 Nom.
Vanillin, ex eugenol, tins, 25 lbs. lb. 6.50 - —
smaller lots lb. 6.90 - 7.25
ex guaiacol, tins, 25 lbs. lb. 3.00 - —
smaller lots lb. 3.05 - 3.15
ex lignin, tins, 25 lb. lots lb. 3.00 - —
smaller lots, tins lb. 3.05 - 3.15
Vinyl acetate, 55-gal. dms., c.l., works lb. .20¾- —
l.c.l., works lb. .21¼- —
tanks, works lb. .19¾- —
Vinylether, normal, tech., dms., c.l., works lb. .28 - —
l.c.l., works lb. .30 - —
tanks, works lb. .27 - —
Ether (see Ether Vinyl).
Ethylether, tech., dms., c.l., works lb. .28 - —
l.c.l., works lb. .30 - —
tanks, works lb. .27 - —
Isobutylether, tech., dms., c.l., works lb. .28 - —
l.c.l., works lb. .30 - —
tanks, works lb. .27 - —
Methylether, cyls., works lb. .30 - —
tanks, works lb. .27 - —

Cylinders are sold outright, or if shipped against deposit, a free period of 60 days is allowed; and if empties are returned prepaid and in good condition within that period, full refund is made.

Trichloride, (see Trichloroethane).
Pyridin, ret. dms., works lb. 1.65 - —
Viosterol, in alcohol, 1,000,000 D units per gm., bots., lots of 10 billion USP units, 1,000,000 units. .025 - —
lots of 1 billion USP units, 1,000,000 units. .03 - —
lots of less than 1 billion USP units, 1,000,000 units. .035 - —
in natural vegetable oil, 400,000 to 1,000,000 D units per gm. bots., lots of 100 billion USP units, lots of 1 billion USP units, 1,000,000 units. .025 - —
lots of less than 1 billion USP units, 1,000,000 units. .03 - —
Vitamin A, synthetic, acetate, crystalline, beads, 500,000 A units per gm gm. .07¼- —
liquid, in oil, 1,000,000 A units per gm. 1,000,000 units. .12 - —

Advance Bulletin

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Chemical Company

FILE NUMBER
Plasticizer
Preliminary W-5

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Vitamin A, natural, concentrates (see Oil, fishliver).
palmitate, liquid, 1,000,000-1,800,000 A units per gm. 1,000,000 units .12 - —
in oil, 1,000,000 A units per gm. 1,000,000 units .12 - —
B_1 (see Thiamine hydrochloride).
B_2 (see Riboflavin)
B complex, natural (see Rice bran concentrate and Yeast).
B_6 (see Pyridoxine hydrochloride).
B_{12} crystalline gm. or 5 gm vials gram 295.00 - —
oral grade solids, in containers of 1 and 5 grams of B_{12} activity. gm. 225.00 - —
C (see Acid, ascorbic)
D (see Oils, codliver and fishliver, Calciferol, and Viosterol).
D_2 (see Calciferol).
E (see Alphatocopherol and Oil, wheatgerm).
G (see Riboflavin)
H (see Biotin)
K, Active (see Menadione).
K_1, 25 gm bots gram 4.50 - —
Violet methyl toner (see Blue, methylviolet toner)
V.M.&P. naphtha (see Petroleum naphtha).

W

Wahoo root bark, bls lb. 1.95 - 2.00
tree bark, bls lb. .95 - 1.00
Warfarin 0.5%, dms., 50 lb. lots, dlvd. lb. 1.95 - —
25-49 lb. lots, f.o.b. N.Y., or Chi. lb. 2.05 - —
5-24 lb. lots, cns., f.o.b. N. Y., or Chi. lb. 2.15 - —
Wattle bark, fair average, or E. Afr., bgs., ex dock ton. 104.00 - —
merchantable, bgs., ex dock ton. 100.00 - 101.00
extract, liquid 35% tannin, bbls., works lb. .10¾- .11
solid, E. Africa, 61% tannin, bgs., ex dock, duty extra, lb. .11 - —
S. Africa 62% tannin, ex-dock, duty extra lb. .11½- —
Wax amorphous (see Wax microcrystalline).
Bayberry, bgs., spot lb. .42 - .45
Bees, crude, African, bgs lb. .45 - .46
Brazilian bgs lb. .70 Nom.
Central American lb. .56 - .57
refined, bleached, white, bricks, lb. .69 - .71
slabs lb. .67 - .69
yellow, bricks lb. .55 - .56
slabs lb. .54 - .55
Candelilla, crude, bgs lb. .75 - .77
refined bgs lb. .77 - .79

Powdered candelilla, 20 mesh, 3c. per lb. extra; 80 mesh, 5½c.; 100-200 mesh, 6c.

Carnauba, chalky, bgs., ton lots. lb. .96 Nom.
North Country, No. 2, bgs., ton lots. lb. 1.03 Nom.
No. 3, crude, bgs., ton lots lb. .96 - .97
refined, bgs., ton lots lb. .99 - 1.02
yellow, No. 1, Ceara, bgs., ton lots lb. 1.29 - 1.31
Parnahyba, bgs., ton lots lb. No stocks.
No. 2, Ceara, bgs., ton lots. lb. 1.27 - 1.29

Powdered carnauba price differentials same as powdered candelilla.

Esparto, African lb. .70 - —
Japan, bgs lb. .22 - .25
Microcrystalline, 170°-175° m.p., ASTM, amber, ctns., 20,000 lbs. group 3, works lb. .13 - .14
less than 20,000 lbs., same basis lb. .14 - .15
black, ctns., 20,000 lbs., same basis lb. .11½- .12½
less than 20,000 lbs., same basis lb. .12½- .13½
white, ctns., 20,000 lbs., same basis lb. .24 - .25
less than 20,000 lbs., same basis lb. .25 - .26
180°-185° m.p., ASTM, amber ctns., 20,000 lbs., same basis lb. .16 - —
less than 20,000 lbs., same basis lb. .17 - —
black, ctns., 20,000 lbs., same basis lb. .14½- —
less than 20,000 lbs lb. .15½- —
white, ctns., 20,000 lbs., same basis lb. .27 - —
less than 20,000 lbs., same basis lb. .28 - —
190°-195° m.p., ASTM, amber, ctns., 20,000 lbs., same basis lb. .20 - —
less than 20,000 lbs., same basis lb. .20½- —
black, ctns., 20,000 lbs., same basis lb. .18 - —
less than 20,000 lbs., same basis lb. .18½- —
white, ctns., 20,000 lbs., same basis lb. .33½- —
less than 20,000 lbs., same basis lb. .34½- —
Montan, dom., refined, bgs lb. .31 - .32
German, crude, bgs lb. .12½- .13¼
Ouricury, ref., bgs lb. .63 - .69
Paraffin (see P).
Spermaceti, blocks, cs lb. .26 - .29
cakes, cs lb. .27 - .30
Sugar cane, crude, imp lb. .43 - —
refined, dom., works lb. .75 - .80
spot lb. .77¼- .82¼
White lead (see Lead, white).
White pine bark, rossed, bls lb. .17 - .18
White precipitate, USP powd., dms., lb. 5.00 - —
Whiting, limestone, dry-grd., 99.5%, 325 mesh bgs., c.l., works. ton. 6.00 -10.00
smaller lots, works ton. 6.50 -15.00
wet-grd., bgs., c.l., works ton. 16.00 -30.00
smaller lots, works ton. 21.00 -35.00
Paris white, bgs., c.l. ton. 24.00 -31.00
l.c.l. ton. 25.00 -40.00
Precipitated, bgs., c.l. ton. 18.00 -20.00
l.c.l. ton. 25.00 -35.00
Wild cherry bark, thick, natural, bls lb. .06 - .07
thin, natural, bls lb. .17 - .19
rossed, bls lb. .19 - .22
Ginger (see Snake root, Canada).
Indigo root, bls lb. .30 - .31
Yam root, bls lb. .16 - .17
Witch hazel leaves, bls lb. .22 - .24
Woodflour 40 mesh, bulk, c.l., works, East ton. 32.00 - —
l.c.l., same basis ton. 36.80 - —
60 mesh, bulk, c.l., same basis ton. 37.00 - —
c.l., same basis ton. 42.00 -55.00
80-100 mesh, bulk, c.l., same basis ton. 45.00 -50.00
l.c.l. same basis ton. 51.75 -57.50
Woodflour in bgs extra, returnable.
Wool fat, crude (see Degras), USP (see Lanolin)
Wormseed, American, bgs lb. .24 - .25
Levant bgs lb. 4.25 - 4.50
Wormwood leaves, bls lb. .35 - .45

X

Xanthorrhiza root, bls lb. .28 - .30
Xylene (see Xylol).
Xylenol, cryst., 56°-58°C. m.p., ret. dms., l.c.l., works, frt equald. lb. .25 - —
45°-47°C. dms. c.l. same basis. lb. .212 - —
l.c.l., same basis lb. .215 - —
tanks, same basis lb. .199 - —
fractions, over 7° C., b.r., except meta, dms., c.l., same basis gal. 1.31 - —
l.c.l., same basis gal. 1.34 - —
tanks, same basis gal. 1.20 - —
meta fraction, over 7° C., dms., c.l. same basis gal. 1.46 - —
l.c.l., same basis gal. 1.49 - —
tanks, same basis gal. 1.35 - —
Xylidins, mixed, dms lb. .39 - .50
Xylol, coaltar, industrial, tanks, works
Bethlehem, Pa gal. .33 - —
Birmingham district gal. .30¼- —
Chicago district gal. .33½- —
Cleveland district gal. .33 - —
Geneva, Utah gal. .25 - —
Hamilton, Ohio gal. .32 - —
Johnstown, Pa gal. .31 - —
Lackawanna, N. Y. gal. .33 - —
Lone Star, Tex gal. .35 - —
Lorain, Ohio gal. .31 - —
Minnequa, Colo gal. .34 - —
Philadelphia, Pa gal. .33 - —
Pittsburgh district gal. .30 - .33
Sparrows Point, Md gal. .33 - —
Syracuse, N. Y. gal. .30½- —
Terre Haute, Ind gal. .35 - —
Wyandotte, Mich gal. .34¼- —
Youngstown, O. gal. .30½- —
Xylol, petroleum, indus., tanks, Albany, N. Y. gal. .33 - —
Bayonne, N. J. gal. .33 - —
Baytown, Tex gal. .31 - —
Chicago, Ill gal. .33 - —
Philadelphia, Pa gal. .33 - —
Providence, R. I. gal. .33 - —
Wood River, Ill gal. .33 - —

Y

Yara yara, cns lb. 2.20 - 2.65
Yeast, brewer's, dry, USP, 50 Int'l B units per gram, 100-lb. dms lb. .47 - —
90 Int'l B units per gram, 100-lb dms lb. .52 - —
200 Int'l B units per gram, 100-lb. dms lb. .56 - —
300 Int'l B units per gram, 100-lb dms lb. .60 - —
Yellow, barium chromate, CP, bgs., l.c.l., dlvd. N. of Tenn. and N. C., E. of Miss., including Davenport, Minneapolis, Rock Island, St. Louis St Paul lb. .35 - —

Barium chromate yellow price differentia in other States and city zones are those for chrome yellow below

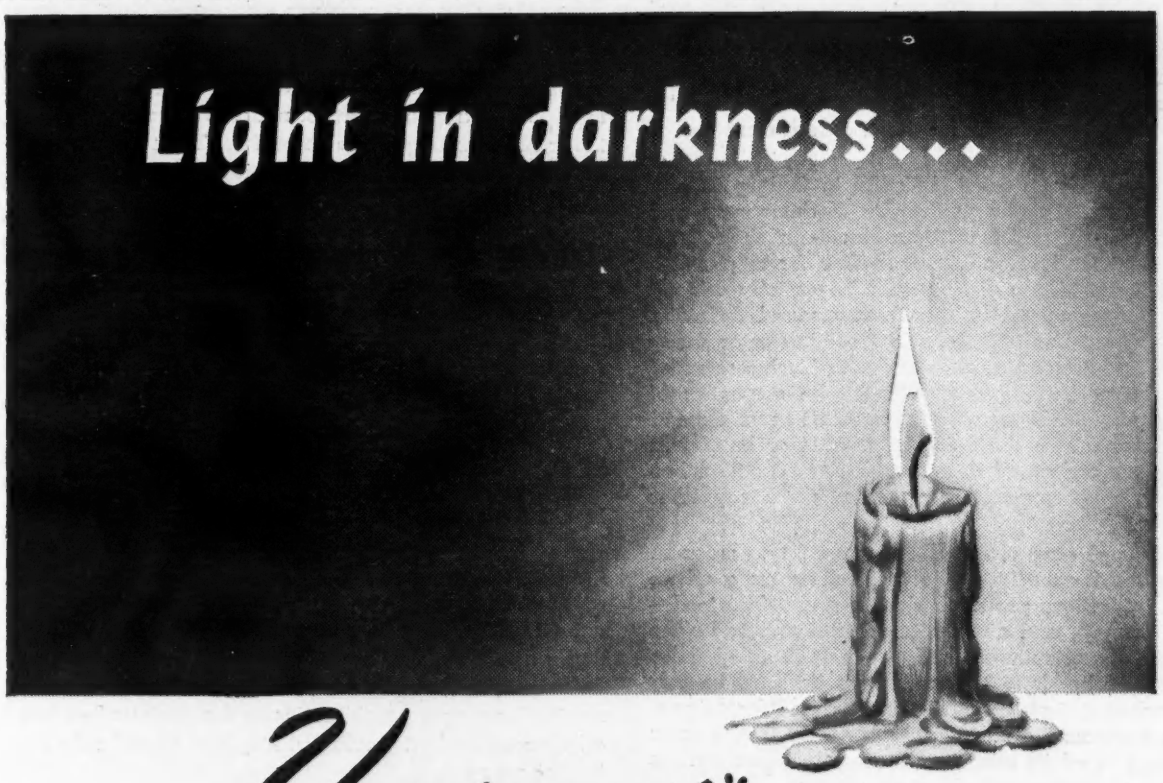
Benzidin, AAA, bbls., dlvd lb. 1.91 - —
AAOT, bbls. lb. 2.06 2.15
Cadmium, CP, all shades, bbls., frt. alld., E. of Rockies lb. 2.85 - —
lithopone, all shades, bbls., frt. alld. E. of Rockies lb. 1.20 - —

Cadmium yellows, Los Angeles and San Francisco, ex whse., 1c. per lb. higher

Vitamin A, Natural—Yohimbine Hydrochloride

Yellow, chrome, CP, bbls., dlvd. N. Tenn. and N. C., E. of Miss., including Davenport, Minneapolis, Rock Island lb. .31 - —
Dlvd. Ala., Fla., Ga., La. (Shreveport, 1¼c. higher); Miss. N. C., S. C., Penna., Dallas, Tex., 1¼c higher; Ft. Worth, Tex., 1½c. higher; El Paso, Tex. 2c higher; Cedar Rapids, Des Moines, Kansas City, Lincoln, Omaha, St. Joseph, 1.6c higher dlvd. Pac. Coast; for Denver, Pueblo, Salt Lake City, Wichita prices are equalized with Chicago
Hansa, 10 G, bbls., same basis as chrome lb. 2.15 - —
G pigment, bbls lb. 1.91 - —
Iron oxide, natural, bgs., c.l., works lb. .0141 .0250
l.c.l., works lb. .0166 .0275
French type, bgs., c.l., lb. .04½- —
l.c.l. lb. .04¾- —
Peruvian type, bgs., c.l. lb. .0165 - —
pure, bgs., c.l., works lb. .10 - —
l.c.l., works lb. .1025- —
Mercury oxide, bbls., 1,000-lb. lots. lb. 4.15 - —
smaller lots lb. 4.17 - —
Ocher, American golden, bgs., works lb. .01¼- .03¾
Zinc (chromate), bbls., dlvd lb. .25 - —
basic, dlvd. lb. .30 - —
Yellow dock root, bls lb. .18 - .19
Yellow xanthorrhiza (see Xanthorrhiza).
Yerba santa leaves, bls lb. .32 - .33
Yohimbine hydrochloride, bots., tins. oz 4.75 5.25

—Continued on page 78



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VERSENE Fe_3 SPECIFIC is the most powerful complexing agent known for *iron* in the normal pH range. It also chelates copper, nickel, cobalt and zinc. (47% solution)

VERSENE Fe_2 is a combination of VERSENE and VERSENE Fe_3 SPECIFIC. It complexes both iron and other metallic ions. (Powder or liquid)

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No Job for Government

The United States Secretary of Agriculture has been advised by his specially selected committee on corn problems that increasing supplies of that grain "point up sharply the urgency of finding new and expanded outlets." That, of course, is an economic axiom. The corn advisers urge that the secretary place greater emphasis on research and marketing programs purposed to broaden domestic and foreign use of corn. That, of course, is in keeping with the newer concepts of a "free economy"—getting something for nothing at somebody else's expense. The growers of corn in this country are among the most ardent devotees of that "faith."

One would have great difficulty in finding in any logical analysis of the philosophy of democracy any support for the belief that it is a function of the federal government to develop bigger outlets for any article of commerce. Certainly it would be equally difficult to harmonize such a belief with any sound definition of "free enterprise." To be free, anything or anybody must be independent—"freedom" and "independence" have always been synonymous in the semantics of this nation. Anything or anybody that must depend on government for the doing of what it or he should do for itself or himself cannot truthfully be called free and should be regarded and treated as is any other "sponger."

The federal government does a very large measure of research for the benefit of agriculture as a whole and in its various parts. It does a great deal to discover, develop, and directly to provide outlets for the products of agriculture. In large part, both of these jobs should be done by agriculture itself. Like any other industry, it should maintain its own adequate research programs, and certainly it should do its own marketing in all its aspects. Those things are not the business of government—in a democracy.

There was a widely beneficial conference on the quality of cereals and their industrial uses in Great Britain last year. It encompassed many aspects of that expansive subject, from agronomic characteristics of oat varieties to the utilization of cereal by-products. Oh, yes; Great Britain still has a goodly measure of something like socialism in its government—but, that conference was organized and conducted by several groups of the Society of Chemical Industry, a wholly private organization. There are organizations in the United States — agricultural and industrial and the liaison group, the National Farm Chemurgic Council, which could do at least as much for the problems of the growers and marketers of corn. They should take on that job.

Something quite simple in the direction of help in that connection is implied by a bill in the Missouri legislature, which would permit the use of ground corncobs in feed intended for consumption by ruminant livestock. Some of the work done in the United Kingdom on the utilization of agricultural residues as materials in the making of pulp and paper also presents some useful hints.

In view of the serious aspects of the problem of adequately feeding the steadily increasing population of the globe, the finding of bigger outlets for corn would appear to be largely only a matter of making them. The world's use of corn as a human foodstuff is not of anything like its potential volume. Its development offers no particular difficulty. Corn is a good food with any number of possibilities in the direction of variety—although, as with many other things, its development since the days when a pokeful of parched corn was the nutritive standby of hardy pioneers has in large part been in areas of appearance, rather than of nutritive value or palatable appeal.

Perhaps, because government had such a large part in the development of hybrid varities of corn which have substantially increased the yield of grain per acre, it is in duty bound to do as much to build demand to a similar volume—real demand, that is; buying corn and paying for its interminable warehousing is not that at all. But, the problems of the corn economy will never be solved by governmental tinkering—no economic problems can be. Their solution is the job of the corn industry, whatever its ramifications in more or less broadly and closely related fields. That community of interests should have no use for governmental charity.

Budget Balancing Is Out

Those in the legislative division of the federal government who have in some way or another arrived at the conclusion that the budget cannot be balanced are not concerned with the financial possibility of such an achievement; they are talking from the standpoint of political practicability. Any budget can be balanced.

It must be said with reference to the budget that there is a goodly measure of national necessity behind the impracticability of its balancing. The reason is not all a matter of that always big item of governmental expense—the cost of getting and maintaining an adequate supply of votes.

Because of the politicomic importance of that item, there is at least a slim possibility that a bill to reduce income tax rates or, anyhow, to effect reductions in payments due by means of more generous exemptions, will be passed, at least by the lower house of congress, without any thought of what is going to be appropriated for the financing of governmental operations. The idea of deficit financing has not disappeared from the mental processes of those who, as they see it, have been set up in the job of handling the important business of giving the people of this nation the sort of government to which they have become accustomed and attached. Balancing the budget is a job of a different sort. Even those who argue with greater logic that the budget should at least be brought close to balance before any sources of revenue are diminished appear not to give proper consideration to the obvious fact that a balanced budget would not stay that way if only the income was cut.

One can get a significantly informative picture of the financial philosophy—or expediency—of the federal lawmakers from the fact that, among the multitude of pending measures aimed at some aspect of something designated as "inflation," there are in the house fifteen bills "to aid in controlling inflation, and for other purposes," which are exactly alike in every respect except the calender number, the date of introduction—and the name of the introducer. Their numbers have a range of 187. Their introduction ran over six days. Their evident purpose is to give the President authority to set up controls on prices and wages pending the congressional determination of their necessity because of an "emergency." The policy behind this mass movement to deal with certain effects of inflation, but not with any of its causes is set forth in thirty-one of the bill's more than 500 lines. Nothing is said about why fifteen copies of the same measure had to be printed. That, of course, comes under that big item of expense referred to above.

The bill also testifies to the existence of a legislative policy of taking care of those on the government payroll who have business interests which might be affected by controls. It prohibits, under a penalty of a fine up to $10,000 and imprisonment up to one year, any direct or indirect use of information got under the proposed law in speculation on a commodity exchange —but not in any "legitimate hedging transaction, or a purchase or sale which is accompanied by actual delivery of the commodity."

The influence of politicomic expediency has no limits and, in the philosophy of politicomics, there is no relation between inflation and an unbalanced budget.

For the Bookshelf

CHEMIVISION—From Farm to Factory to Fortune. By William J. Hale. Cloth; xiii + 207 pages, 5x7½ in. Haverhill, Mass.: Destiny Publishers. $3.

In this volume, the popularizer of farm chemurgy sets forth his ideas on how that practice, constructing and developing the Great Chemurgic Period of human history, will enable the human race to rise to new heights economically and ethically and fulfill its divinely proffered destiny in areas of peace and properity, by way of the "Divine Economic System," with the elimination of greed.

Starting with the metallurgic origins of chemistry in the Bronze Age, Dr. Hale traces a role of that branch of science through the succeeding milleniums. He is particularly emphatic with reference to its broadly economic influence—and he sees that role prevailing by way of chemurgy over "myopic" capitalistic concepts and goals, a special example being made of the potentialities of alcohol as an internal-combustion fuel. The revolution, as he sees it, will proceed by way of "corpitalism," "meedalism," and "chemecconomics" and the grouping of the peoples of the world into four great "sations," with the defeat of the misuse of so-called "communism."

Agriculture is to become more profusely productive as men get broader vision—and take to the tropics; but there will be no unprofitable surpluses, because "chemivision" (a sort of superchemurgy) will convert all uneaten products into chemicals for the meeting of widespread and long-term needs.

Dr. Hale has vision with a distinct chemical tinge. His new book makes at least an interesting case for the substitution of growable raw materials for the mineral sources of chemicals, which cannot be reproduced. Its reading is conducive to much thinking, most of it along new lines—and far ahead of the times.

Washington Talks

—Continued from page 5

on this subject states that the researchers have been able to kill cattle grubs through injections of either aldrin, dieldrin, and lindane.

Cattlemen are cautioned, however, not to start pumping the insecticides into their herds yet because there are still many questions about this new method of control to be answered. The researchers say that the practical use of chemical injections to control cattle grubs on farm or ranch is still no more than a future possibility. Whether or not these insecticides or other chemicals, used as injections, will prove both economical and safe to use, the problem is typical of those that need to be solved before insecticidal control of livestock pests becomes feasible.

Previously reported research proved that feeding or injecting lindane beneath the skin of cattle would kill blood-sucking pests such as horn flies, deer flies and mosquitoes after they feed on the animals. Continued progress in these research approaches to the control of livestock parasites may eventually provide farmers and ranchers with healthier and higher-producing animals.

Success in killing cattle grubs by injections is a distinctive development of progress. This parasite has been estimated to cause a loss of $100,000,000 a year to growers because of annoyance of animals and damage of meat and hides. Horn flies are equally damaging to incomes.

Small Producers and CMP

It is evident from the comments being heard from Capitol Hill that some of the legislators are apprehensive over what is going to happen to the little manufacturer when the CMP goes out the window next June 30.

Recalling the difficult and confused conditions which developed in the materials markets at the outset of controls, representations by small businessmen made to the small business committee of the house express concern over the announced removal of general controls. While the committee is in accord with the current contention of the Office of Defense Mobilization that decontrol action should be predicated on careful studies of supply and demand on a product-by-product basis, it also believes that a return to a free market must not result in a needless and disproportionate burden on small firms.

The committee has told the government that the small business segment of the economy has traditionally suffered the greatest hardship in obtaining materials during emergency periods and in view of this, the measure of availability of materials to small firms should be utilized as a primary barometer in decontrol decisions.

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619-2

Heavy Chemicals

Index dropped sharply last week to 95.01 from 95.44 in the preceding period. Calcium phosphate dibasic, feeding grade, recorded an extensive price decline. Increased production resulted in hot competition and the market was still under pressure at the close of the week. Spot quicksilver was also down substantially with consumer interest slow and transactions confined to current wants. The advances included copper chloride which reflected the higher prices recently named for the metal. Advances in other copper chemicals are expected to be announced shortly. Lead metal was advanced fractionally in line with higher prices named in London. Magnesium ingots and sticks were priced higher to cover current producing costs.

Two large producers will advance prices for chlorine and soda ash on May 1 and it looks as though other producers will go along. Current demand for these chemicals as well as caustic soda is holding about steady. Shipments of potassium carbonate to glass plants are absorbing production and keeping first hand inventories down but increased output is expected to reach the market early in May. Planters are not too friendly to the late advance in copper sulphate prices. Anhydrous ammonia maintained a snug supply position. No improvement could be noted in the availability of nickel sulphate or other nickel based chemicals. The chemical industry was freed from price control March 12 by OPS, except for controls on sulphur, sulphuric acid, oleum, sulphur trioxide and beryllium oxide.

Paper production based on percentage of six-day capacity was 93.0 percent for the week ending March 7, according to the American Paper and Pulp Association. This compared with 95.0R in the preceding week and 96.9 in the corresponding week in 1952.

Production figures appearing below, unless otherwise designated, are from the Bureau of the Census, Department of Commerce and the Chemical Division of the Tariff Commission.

Calcium Phosphate, Dibasic—The feeding grade price has been sharply reduced to $80 per ton in bags, carlots works. The entrance of new producers in the market has increased the available supply and the market is under competitive pressure. Imported material has also contributed to the downward revision of prices.

Carbon Bisulphide—Recent strikes at some important consuming plants have tended to ease the supply position. December production was placed at 38,401,424 pounds, compared with 40,554,019 in November and 41,151,001 pounds in December 1951. Total output for 1952 amounted to 483,863,699 pounds.

Carbon Tetrachloride—No scarcity of stocks at present. Demand is being readily satisfied. Production during December amounted to 16,515,623 pounds, compared with 17,200,171 in the preceding month and 22,763,306 pounds in December 1951.

Chlorine—Demand about steady last week from most consuming sources except insecticides. Stocks continued adequate to meet requirements. Two large producers will advance prices on May 1. The schedule states that liquid chlorine in "single units" in tank cars will sell for $2.90 a hundred pounds. In multiple units, five cars to one place in one year on contracts, the price will be $3.80. In lots of three or four cars at $4, in lots of two cars at $5 and in single cars at $6. In one ton cylinders in lots of less than 15 tons, the price will be $7.

Copper Chloride—Priced higher at 41c. per pound for anhydrous and at 27½c. for crystals f.o.b. the works. Increased cost of production, occasioned by higher metal was the cause.

Copper Sulphate—There has been no unusual rush to buy this material for agricultural use. It was stated that many planters took on stocks prior to the recent price advance. Others seem destined to buy when necessity requires. Industrial demand remained steady. There were a number of export inquiries in the market mostly from Latin American countries and some from France. Stocks remain long.

Production of copper sulphate rose 1 percent in January 1953, to 6,080 tons, continuing the uptrend since the lowest level of 1952 was reached in November, according to the Bureau of Mines. Shipments, although in excess of December, lagged behind November. Production and shipments were both substantially below monthly averages for 1952, falling 23 and 15 percent, respectively. Stocks dropped 8 percent in January to 6,324 tons, but were sufficient for about a month's requirements at the January rate of shipments. For 1952 as a whole, production and shipments reversed the uptrend of the past two years, declining 12 and 11 percent respectively, from 1951. Production was greater than shipments and stocks rose 41 percent. Foreign trade data for January are not available. There were no imports in December and the total for 1952 was less than one ton. Exports were 2,932 tons and except for February, June and August were at the lowest monthly rate of the year. For the year as a whole exports were 1 percent more than 1951. Of the total shipments of 92,472 tons in 1952, producers' reports indicated that 26,116 tons were for agriculture, 24,004 tons for industrial, and 42,352 tons for other uses.

Fluorspar—Production of metallurgical and acid grades of fluorspar was smaller in December than in November but output of ceramic grade was larger, according to the Bureau of Mines. Consumption of fluorspar at steel, hydrofluoric-acid, ferroalloy, enamel, and aluminum-reduction and magnesium-reduction plants, iron foundries, and in welding-rod coating was larger in December than in November, but these gains were partly offset by smaller usage at glass plants. Imports of fluorspar in December were 28,330 tons, compared with 24,088 tons in November; the December imports came from Canada, French Morocco, Germany, Italy, Mexico, Spain, and Tunisia. Production and shipments of domestic origin of all grades were 32,291 and 28,261 short tons, respectively, in December, decreases of 9 and 30 percent from November. Of the shipments of metallurgical-grade fluorspar in December, 8,780 tons were from the Illinois-Kentucky district and 3,990 tons were from Arizona, Montana, Nevada, and Utah. Of the shipments of fluorspar of domestic origin from Illinois and Kentucky, 5,483 tons were shipped by barge on the Ohio River, compared with 10,526 tons in November. In addition, 400 tons of fluorspar of Mexican origin were shipped by barge on the Ohio River from the Illinois-Kentucky district in December, compared with 826 tons in November.

Potash Caustic—Available stocks are not excessive at present. A lot of caustic is going into potassium carbonate and a fair demand is being experienced for use in the manufacture of other chemicals.

Potassium Carbonate—Glass plants continued to call for immediate shipments and some of the producers are moving material as rapidly as made. Increased production is expected to reach the market about May 1, but supplies at present lean toward the tight side.

Soda Ash—Shipments are described as steady with no important variation in the movement so far this month. The trade was interested in the announcement of higher prices named by one of the largest producers. The new prices are effective May 1, f.o.b. plants. Light soda ash, 58% bulk, in carload lots, will sell for $1.35 a hundred pounds, in paper bags at $1.65, and in barrels at $2.20. Dense soda ash, in carload lots, will sell for $1.45 in bulk, in paper bags at $1.75 and in barrels at $2.30. Another large producer will advance prices 15c. per 100 pounds for both bulk and packages.

Soda Caustic — Stocks continued adequate to meet consumer requirements and shipments were generally described as good. Oil refineries and tire yarn plants have been taking full shipments during the month to date.

Acids

Acetic—Glacial demand is holding at a level described as satisfactory with prices displaying a stronger tone than noted

For Late Market Developments, See Page 4

Market Trends

Advanced

Copper chloride, anhydrous, 6½c. per lb.
crystals, 4¾c. per lb.
Lead metal, ½c. per lb.
Magnesium ingots, 2½c. per lb.
sticks, 3c. per lb.

Reduced

Calcium phosphate dibasic, feeding grade, $10 per ton.
Quicksilver, $4 per flask.

Comparative Price Indexes

(100=1949 average)

Last week	Prev. week	Last month	March 14, 1952
95.01	95.44	95.56	97.69

(*For Current Prices see page* 9)

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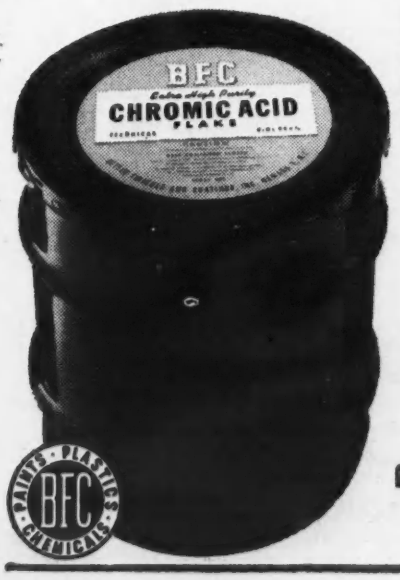

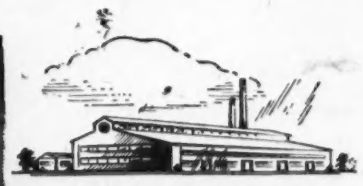

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earlier in the year. December production of synthetic acetic acid amounted to 41,342,428 pounds, compared with 37,333,985 in November and 33,776,630 pounds in December 1951. Total production for 1952 was 375,743,615 pounds. The amount of natural acid produced in December was 1,643,000 pounds and the total amount last year was 23,250,000 pounds.

Oxalic—Sales have shown no important increase so far this month. Stocks at present are ample to meet requirements. December production amounted to 1,840,469 pounds, compared with 1,402,906 in the preceding month and 1,939,580 pounds in December 1951. Total production for 1952 was 14,503,539 pounds.

Phosphoric—Market continued fairly active with consumers not finding supplies a problem. Production during December was placed at 175,533 tons, including 80,477 made from phosphorous and 95,056 tons from phosphate rock. November output was revised to a total of 179,647 tons and in December 1951 production amounted to 151,099 tons.

Nonferrous Metals

Antimony—Smelter production in December increased sharply for the second successive month, totalling 1,064 short tons, or nearly 20 percent over the 889 tons in November, according to the Bureau of Mines. Mine output was again insignificant at 9 tons compared with 6 in November. Industrial consumption continued to decrease during December, totalling 986 short tons, as compared with 1,158 tons in the preceding month, and was the second lowest monthly total in 1952. Of the antimony consumed in December, 56 percent was used in the manufacture of nonmetal products and 44 percent was in the manufacture of metal products. Stocks held by producers and smelters on December 31 decreased 2 percent from the 3,552 short tons reported on hand December 1, while those stocks held by industrial consumers and dealers increased 3 percent over the 4,004 tons reported on hand at the beginning of the month. Imports during December were the highest recorded in 1952, amounting to 1,543 short tons. Of the total imports, 68 percent was in the form of ore and concentrates, 19 percent in the form of oxide and the remainder in the form of metal. For the third consecutive month there were no exports.

Copper—Consumption of refined copper and copper scrap in the United States totalled 2,188,000 short tons (copper content), in 1952 according to statistics released by the National Production Authority. To meet this consumption, the U. S. supply of refined copper and copper scrap amounted to 2,529,000 short tons (copper content). This figure includes both U. S. home consumption and exports. Deliveries of copper and copper-base alloy products under the Controlled Materials Plan continued at a high rate in December, making deliveries in the fourth quarter of 1952 the largest for any quarter since the beginning of the Korean emergency. Deliveries in the fourth quarter totalled 1,360,000,000 pounds (metal weight) of copper and copper-base alloy products.

NPA officials said this high level of performance was made possible by the importation of 46,000 short tons of refined copper in December and 120,000 short tons the fourth quarter. Production of refined copper from domestic ores and scrap also were greater than had been expected. Year end inventories of refined copper at brass mills represented about one month's supply. Over-all inventories of copper raw materials and metal in process for wire mills, however, approximated one month's supply of metal. As the copper industry entered the year 1953, inventories were improved, the supply of refined copper was much greater and CMP demands were being fully met.

Lead—Price was advanced ½c. last week, establishing the market at 13½c. per pound New York and at 13.30c. at St. Louis. Higher prices in London ap-

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peared to be the primary factor contributing to the advance.

Magnesium—Priced higher at 27c. per pound for ingots 99.8 percent and 45c. per pound for sticks f.o.b. Midland, Mich., with freight allowed at the lowest carload rate of railway freight for single shipments of 100 pounds net or more to one destination within U. S.

Quicksilver—Priced lower last week at $200 to $202 per flask on spot. It was stated that stocks are not excessive at present but consumers are not extending commitments beyond the limit of actual wants.

Imports in the fourth quarter of 1952 were substantially more than double the average for the first three quarters of the year, but amounted to only half of the all-time record quantity brought in in July to September, 1949, according to the Bureau of Mines. The fourth quarter 1952 imports approximated the next highest quantities on record, those for the third quarter of 1950 and the second quarter of 1949. Production continued at about the average rate for the first nine months of the year, whereas consumption lagged 6 percent behind the earlier part of 1952. Industry stocks rose 12 percent during the fourth quarter, or to the highest level since September 30, 1951. The average price rose 7 percent over the third quarter of the year but failed to reach the average for January to March, and was lower than all quarterly averages in 1951.

Domestic production in the fourth quarter of 1952 was 3,130, flasks or 6 percent less than the preceding quarter; it was about the same as the average rate for January-September. In all of 1952. output was 12,500 flasks, 71 percent greater than in 1951, and was the largest since 1948. General imports in the fourth quarter of 1952 were 28,121 flasks and were the largest since the third quarter of 1950. Spain supplied 62 percent of the fourth quarter imports, Italy 25 percent, Yugoslavia 7 percent, and Mexico 6 percent. In the entire year, 1952, receipts of quicksilver totaled 68,686 flasks, were 53 percent greater than 1951 and were the largest on record except for 1945 and 1949. Italy supplied 38 percent of the total, followed by Spain with 35 percent; Yugoslavia accounted for 15 percent and Mexico 12 percent. Supplies from all sources were more than in 1951.

San Francisco — The market appeared unsettled over the week with buying interest quiet. Metal quoted $204-$205 per flask.

Zinc—Consumption of slab zinc in the United States during December rose 7 percent to 85,991 short tons and was 22 percent above the monthly average for 1952, according to the Bureau of Mines. All industry groups contributed to this gain in consumption but the largest increases were reported in the manufacture of zinc-base alloys and brass and bronze products. Stocks of slab zinc rose 16 percent to 92,776 tons, the highest monthly total since April, 1949. Smelter inventories of slab zinc were 86,987 tons or 5 percent greater than at the beginning of December. At producers' plants the stocks of zinc dust fell 2 percent to 1,432 tons on December 31, 1952. Smelter production of slab zinc increased 3 percent to the highest monthly output since May, 1952. Zinc dust production was 2,275 tons for the month, a decrease of 9 percent from the average for the preceding three months, but 10 percent above the monthly average for January-November. An increase of 18 percent brought total receipts of slab zinc at consumers' plants to 98,881 tons, or the highest monthly figure since March, 1945. All industry groups contributed to this increase. Brass mills and die casters each reported 31 percent gains in their receipts and galvanizers and rolling mills indicated increases of 8 and 5 percent respectively.

Reports were current but not confirmed that the government had entered the market to stockpile zinc.

Hardy to Fete Mulligan

A testimonial dinner will be given in honor of Frank H. Mulligan to celebrate the beginning of his thirty-fifth year with Charles Hardy, Inc., New York. The dinner will be held at the New York Athletic Club on March 17. Two hundred guests have been invited from the metal powder, chemical and allied industries. Mr. Mulligan has been vice-president of the Hardy company for over ten years, having served previously as secretary and manager of metal sales.

Cowen Correction

In reporting the formation of a new industrial concern at 233 Broadway, New York, by Martin I. Cowen in the previous issue, OPD printed an incorrect telephone number for the firm. The correct phone number is BArclay 7-9190.

Chemical & Process Handling Wheatland Tube Liquidation

Chemical & Process Machinery Corporation, New York, is currently liquidating the complete chemical division of the Wheatland Tube Company, Wheatland, Pa. The plant was set up in 1949 at a cost of more than $500,000 to convert pickle liquor into ferric hydrate, zinc sulphate and zinc chloride. According to Chemical & Process Machinery, all equipment of the plant is new or nearly new and is immediately available. Included are the following items:—

Pfaudler glass-lined reactors (2,000 gallons); glass-lined storage tanks (2,000 gallons); Bufalovak all monel triple effect evaporators; 3 x 24 Hersey monel driers; Raymond No. 40 mill and flash drier, and Feinc 5 x 3 all monel string discharge filters.

New England Chemical Club Plans Seventh Annual Dinner for Thursday

The seventh annual dinner of the Chemical Club of New England will be held at 7:30 p.m. Thursday in the Somerset hotel, Boston.

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- Carbon Bisulphide
- Carbon Tetrachloride
- Caustic Soda
- Chlordane Insecticides
- Citric Acid
- Cream of Tartar
- DDT and formulations
- Dieldrin Insecticides
- Fire Extinguisher Fluid
- Lindane and Formulations
- Parathion Insecticides
- Potassium Nitrate
- Rochelle Salt
- Silicon Tetrachloride
- Sodium Hydrosulphide
- Sulphenone
- Sulphur (specially processed for all uses)
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- Sulphur Chlorides
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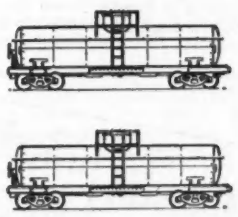
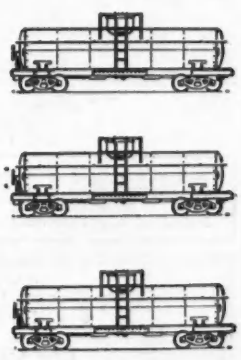
buying caustic soda



Purity was a special problem to a company manufacturing rayon and other synthetic fibers. They needed caustic that was exceptionally clear in solution and contained a very low metallic content.

to better advantage



They found that Mathieson could supply caustic to their specifications; they found in addition, certain advantages of definite benefit to their operations. Deliveries were reliable due to Mathieson's diversified production facilities. Mathieson Technical Service was available for assistance with any production problem. And, as a major producer of soda ash, chlorine, ammonia, sulphuric acid, bicarbonate of soda, sodium chlorite, hypochlorite products, and ethylene derivatives, Mathieson could furnish many of their other essential raw materials.

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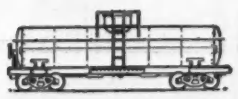

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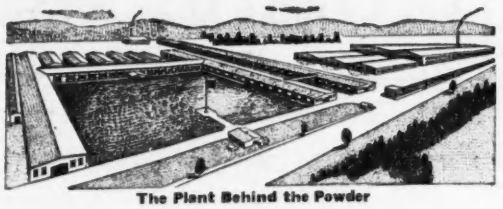

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USDA Mothproofing Agent Usable on Washable Woolens

"EQ-53," the mothproofing formula for protecting washable woolens developed by USDA scientists, has not been recommended for use on furs, suits, coats, and other woolens and materials that cannot be washed, Department of Agriculture officials reiterated March 11. When available on the market, "EQ-53" will take its place among such recognized wool protectors as moth crystals and flakes, fluoride-type moth-proofing solutions, and residual sprays, department officials say.

"EQ-53" is a solution containing the insecticide DDT that can be added directly to the wash or rinse water in the washing machine. Such washable woolens as blankets, sweaters, and socks are impregnated with DDT as they are washed or rinsed. This treatment protects washable woolens from clothes moths and carpet beetles for at least a year, or until they are washed or dry cleaned.

CSMA Luncheon Wednesday

The Chemical Specialties Manufacturers Association will hold a luncheon March 18 at noon at the Roosevelt hotel, New York. Speaker will be Paul H. Blaisdell, of the New York City Citizens Traffic Safety Board, who will discuss traffic conditions. There will also be discussion from the floor on "EQ-53," the Department of Agriculture's sponsored product for washable woolens.

Sodium Handling Data Offered

The Ethyl Corporation, New York, has issued a brochure on the handling of sodium, which is available on request to the company at 100 Park avenue. The publication discusses bulk sodium and sodium sand and describes the handling and use of dispersed sodium.

Chase Adds Woodrich

E. M. Woodrich has joined the Chase Bag Company, Chicago, and will handle the Oklahoma territory. J. P. Falconer, manager of the Dallas, Tex., office has announced.

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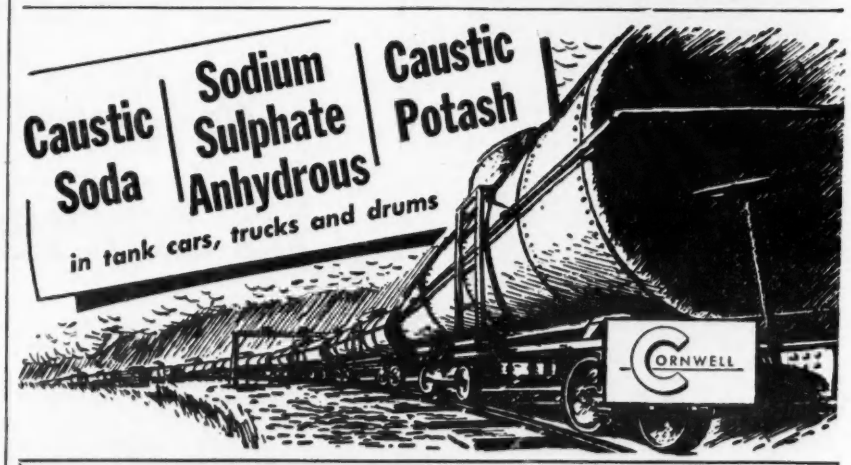

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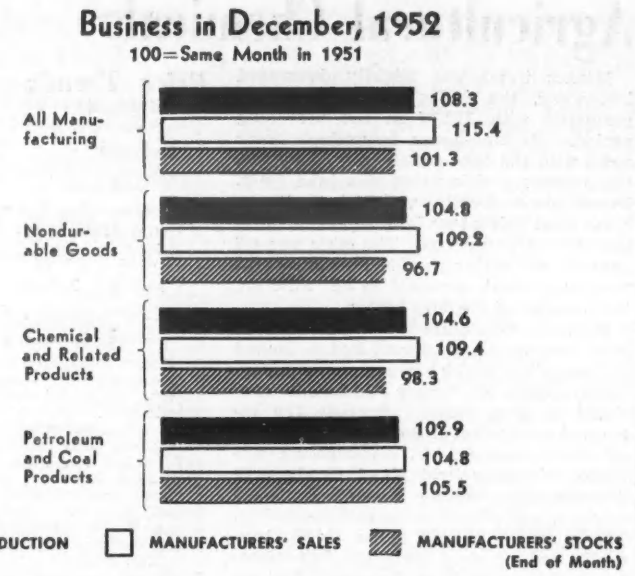

Oil Industry Now Producing More Sulphur Than It Uses

The petroleum industry changed from a net consumer to a net producer of sulphur last year, according to figures compiled by the Petroleum Administration for Defense. The agency said that in 1952 the petroleum industry produced 20,000 tons more sulphur than it used in its own operations, and the surplus is expected to rise to 100,000 tons this year and to 200,000 tons in 1954.

The rise in sulphur production by the industry began several years ago when sulphur supplies began getting short and it became advisable to conserve and seek additional sources of supply. Since the defense mobilization program was undertaken in 1950, twelve petroleum industry projects for recovering sulphur from natural gas or from refinery gases have been completed, thirteen such projects are nearing completion, and at least three additional projects are planned for future construction.

PAD said that sulphur output from extraction plans in oil and gas fields and in refineries is expected to more than double between 1951 and 1954. As against 1951 output of 230,000 tons, sulphur production within the industry is estimated at 290,000 tons in 1952, 390,000 tons in 1953 and 500,000 tons in 1954.

Sulphur is principally used in the petroleum industry in the form of sulphuric acid for refining oil products. Gross sulphur requirements for fresh acid in 1951, the last year for which complete figures are available, amounted to 585,000 tons. Net requirements, however, totaled only 235,000 tons.

The difference of 350,000 tons between gross and net requirements is accounted for by (1) sulphur recovered by acid manufacturers from spent acid sludges returned to them by refineries, and (2) the sulphur equivalent of sulphuric acid sold by refineries to fertilizer and chemical manufactured for re-use in place of new acids. The agency estimated sulphur requirements for the industry at 257,000 tons in 1951, 270,000 tons last year, 282,000 tons for the current year and 290,000 tons for 1954.

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Market trend was slightly downward last week, the index recording 112.16, compared with 112.17 in the preceding period. Packing-house byproducts were quiet with the tone mostly easy. Tankage, while unchanged in price, remained quiet. Dried blood locally was priced lower. Bone meal held at its late decline with no unusual activity noted. The edge was off demand for castor pomice and buyers of menhaden meal appeared to be awaiting the opening of the new season.

Domestic potassium muriate shipments held the late improvement and it looked as though the March movement was in full swing. Imported potash shipments continued to lag, possibly because the increased production of domestic has leveled off most requirements. Ammonium sulphate shipments held about steady with demand active but not urgent. Imported sulphate was offered at competitive prices. This material is said to be chiefly synthetic and of good quality. Superphosphate shipments have increased but did not exceed the normal seasonal average. Demand for sodium nitrate continued strong. Phosphate rock moved freely against contracts. Japan is expected to enter the market shortly for a sizable quantity. There was no change in the price of Curacao phosphate rock.

Production figures appearing below, unless otherwise designated, are from the Chemical Division of the Tariff Commission.

Price Trends

Advanced

None

Reduced

Blood, dried, New York, 25c. per unit of ammonia.

Comparative Price Indexes

(100=1949 average)

Last week	Prev. week	Last month	March 14, 1952
112.16	112.17	112.68	113.31

(For Current Prices see page 9)

Fertilizer Materials

Ammomium Sulphate—While demand has increased, it is stated that the tonnage movement does not compare favorably with other years at this period. Supplies of both foreign and domestic sulphate continued available. A producer quoting $44 a ton at Kearny, New Jersey, will advance the price to $46 April 1.

World production of fixed nitrogen for all purposes was estimated at 4,998,000 metric tons in 1951-52, according to the annual report of the British Sulphate of Ammonia Federation, Ltd. The increase in production of approximately 10 percent was attributed principally to output from new plants. Consumption was 4,959,200 tons, 85 percent as fertilizer.

Bone Meal—Remained steady at the late decline. Demand was moderate with occasional sales at $70 a ton for steamed domestic f.o.b. the works.

Castor Pomace—Edge was off demand. Stocks were offered at $37.25 per ton carlots works with no unusual disposition to buy.

Dried Blood—Slightly lower in New York, $5.50 per unit of ammonia. Buying interest lagged here and in the midwest, although Chicago was unchanged at $5.50.

Fish Meal—Menhaden remained quiet with buyers inclined to await the opening of the new season which is not very far away.

Hoof Meal—Described as quite firm at $6.75 per unit of ammonia, Chicago basis. This material is being purchased for other uses besides fertilizer.

Phosphate Rock—Demand strong for domestic use with available stocks not excessive. Prices are sustained at the late advance. Japan is expected to be in the market shortly for approximately 100,000 tons.

Exports of phosphate rock from Algeria totaled 460,930 metric tons in the first 9 months of 1952. They went principalily to France, the Federal Republic of Germany, the United Kingdom and Spain. Shipments in the second quarter were larger than in either of the other two quarters.

Potassium Muriate—March pickup appears to be in full swing so far as domestic shipments are concerned. It was stated that improvement in mixers' storage facilities has contributed to the better movement. Foreign potash is not finding a ready outlet because domestic production has leveled off most requirements.

Sodium Nitrate—Buying interest remained active for Spring shipment. Stocks so far have continued adequate to meet requirements.

Superphosphate—Shipments have shown improvement since the turn of the month although the movement has not exceeded the normal average to date.

Tankage—Quiet and unchanged at $5.25 per unit of ammonia New York and $6 at Chicago.

Los Angeles Market

Los Angeles—A moderate improvement was noted last week in general market interest. Arrivals continue on schedule and supplies were adequate with exception of a few organic fertilizers. Light to moderate demand has strengthened the blood meal and tankage markets but actual sales were light with supplies limited. Domestic fish meal supplies were tight with quotations unchanged; five cars of anchovy meal reported moved at $2.25 per unit, sacked, f.o.b., Monterey. The demand for phosphates has been good with the volume of trading somewhat above that for the same period last year. Demand for calcium nitrate was strong with only slight delays in arrival schedules; the next shipment is due in April.

Ruling prices were:—Ammonium nitrate—$85.30 per ton, domestic, f.o.b., Los Angeles; $86.84 per ton for Canadian material, f.o.b., Los Angeles.

Ammonium phosphate—$77.14 per ton in bags, 16/20 grade, f.o.b., Los Angeles; $103.64 per ton in bags, 11/48 grade, f.o.b., Los Angeles. Both Canadian material.

Ammonium sulphate—$55.03 per ton in bags, domestic, f.o.b., Los Angeles; $3 less in bulk. Canadian material same.

Blood meal—$5.50 per unit of ammonia at source. Bone meal—$65-$68 per ton, imported, 1/65 meal, c.i.f., Los Angeles Harbor. Domestic —$90-$92 per ton, f.o.b., Los Angeles.

Calcium nitrate—$48 per ton, 15½c. percent nitrogen, c.i.f., Los Angeles Harbor.

Castor pomace—$37.25 per ton, f.o.b., Los Angeles.

Fish meals—$2.25 per unit of protein, anchovy meal, sacked, f.o.b., Monterey. Other domestic, $2.30 per unit of protein, sacked, f.o.b., San Pedro. Imported meal, $2.25 per unit of protein, sacked, ex-dock.

Potassium muriate—50½c. per unit in bulk, f.o.b., Trona. Potassium sulphate—95 to 98 percent K_2SO_4, 86c. per unit, f.o.b., Trona.

Superphosphate—$23.70 per ton in bulk, f.o.b., Los Angeles; $4 extra for bags. Ammoniated—$29.50 per ton in bulk, f.o.b., Los Angeles, 3/16 grade; $4 additional for bags. Triple —$68.50-$72 per ton, bulk, 47 percent a.p.a., f.o.b., Los Angeles.

Pesticides

Producers did not report any general increase in the demand for the synthetic insecticides. It was stated that a fairly substantial business has been placed in DDT for March-April shipment and that the 23c. price is limited to April. BHC remained relatively dormant and still subjected to competitive influences. The price unsettlement combined with states advocating different insecticides has confused planters and the disposition is to await developments. Conditions in the fumigants have shown improvement. According to suppliers, chloropicrin sales have been seasonally normal both for industrial and soil fumigation.

BHC—December production was placed at 2,844,565 pounds, compared with 1,894,945 in November and 11,396,107 pounds in December, 1951. Total production for 1952 amounted to 86,391,179 pounds. The gamma isomer content in December was 563,062 pounds, against 460,451 in the preceding month and 1,571,992 pounds in December, 1951. Total for the year 1952 showed 13,308,475 pounds.

DDT—Production during December amounted to 5,288,329 pounds, compared with 5,546,000 in November and 9,943,953 pounds in December, 1951. Total output for 1952 was placed at 99,444,572 pounds.

2,4-D Acid—December production showed 2,440,492 pounds, compared with 2,729,131 in November and 1,912,048 pounds of acid and derivatives in December, 1951. Total output of acid in 1952 was 33,560,806 pounds. Production of acid esters and salts during December was 1,795,770 pounds, against 1,772,733 pounds in the preceding month.

Insect and weed control methods were improved in Greece in 1952. Considerable amounts of pesticides and weed killers were imported, but the quantities were not sufficient to meet demand. The shortage of foreign exchange and lack of credit facilities for farmers are among the principal difficulties.

Insecticides, fungicides, and weedkillers require import permits before they may be cleared through the Guatemalan customs, by a Customs circular effective January 12. To obtain a permit the importer must present to the Division of Plant Health, Ministry of Agriculture, a copy of the commercial invoice with the technical or chemical names of the ingredients, quantitative analysis, and uses. A sample may also be required for some shipments.

For Late Market Developments, See Page 4

Soybeans, Soybean Oil Exports Lower in 1952

United States exports of soybeans and soybean oil during 1952 aggregated 45,800,000 bushels in soybean equivalent, according to the Office of Foreign Agricultural Relations. This represents only 60 percent of the record 77,300,000 bushels exported in 1951.

Over one-half the total, or 23,400,000 bushels, represented actual shipments in the form of beans and amounted to only 1,200,000 bushels less than the 24,600,000 bushels exported the previous year. However, the 110,000 short tons of soybean oil sold last year was much less than one-half the 258,000 tons shipped in 1951. Last year's bean-and-oil exports represented only 16 percent of the 1951 soybean harvest of 282,000,000 bushels, whereas 1951 exports were over one-fourth the 1950 crop of 299,000,000.

Japan was the major market for beans again but purchases dropped from 11,800,000 bushels in 1951 to 8,700,000 last year. Canada took 4,700,000 bushels—almost as much as in the previous year. Spain, by far the largest single buyer of soybean oil in 1951, was not a purchaser in 1952. The Netherlands took the largest volume—34,000 tons—and western Germany the second largest quantity—23,000 tons. Over 25 percent of the total bean shipments and nearly 80 percent of the oil went to Europe.

US Revenue Returns Increased During Jan.

Collections of internal revenue during January, 1953, totaled $5,378,298,147.03, as compared with $4,813,109,741.45 in the corresponding month of 1952, according to the Bureau of Internal Revenue of the Treasury Department. Among the collections reported by the bureau were the following:—

	January 1953	January 1952
Coconut and other vegetable oils, processed	$888,169.80	$1,183,881.71
Distilled spirits, domestic, excise tax	112,786,458.87	89,030,247.69
Distilled spirits, imported, excise tax	13,681,912.62	11,905,176.05
Gasoline	64,436,650.02	60,259,597.78
Lubricating oils	5,289,100.62	10,312,934.82
Matches	752,579.23	563,608.10
Narcotics, including marihuana and special taxes	50,943.47	61,175.32
Silver bullion sales or transfers, stamp tax	3,382.64	737.76
Sugar	3,873,906.82	5,439,766.22
Toilet preparations, excise tax	13,123,480.21	11,547,853.05
Transportation of oil by pipeline	2,089,702.41	2,685,835.10

Spencer Chemical Adds Two

Spencer Chemical Company, Kansas City, Mo., has added two new district agronomists to its staff. A. B. Beasley has been assigned to the mid-south district, and will work out of Memphis, Tenn., while Billy Mitchelson has been assigned to the north-central district, with headquarters in Minneapolis, Minn. Mr. Beasley had been an agronomist with Mid-South Soils & Farm Service, and before that was an agronomy instructor at the University of Tennessee. Mr. Mitchelson, a one-time employee of the Soil Conservation Service, before joining Spencer, was with Chas. Pfizer & Co., working out of Fort Dodge, Ia.

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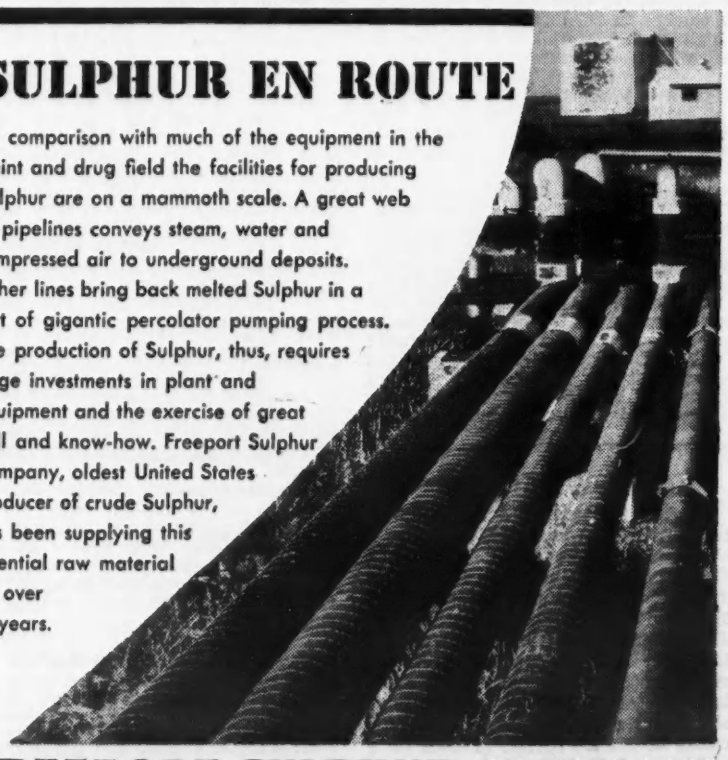
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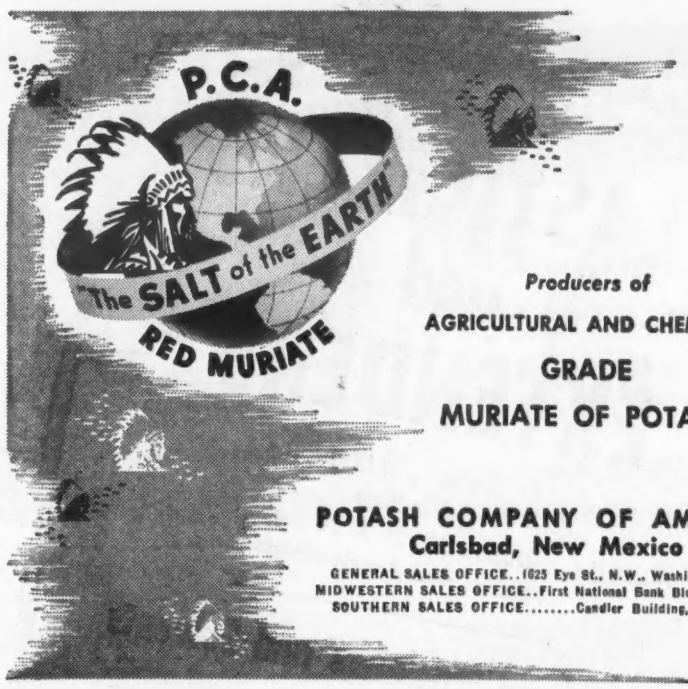

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P-48

Petroleum Derivatives

Price controls were removed on Number 2 heating oil in the New York area, the last petroleum product remaining under control. No price increases were expected during the remainder of the heating season in view of large available stocks. Quotations for other petroleum products remained steady. In the first month since lifting of controls on crude and products very little change has appeared in the overall situation. Crude schedules were increased only in California and Pennsylvania. No increases were considered warranted for Texas crude because of the more than ample stocks. This situation was responsible for action by the Texas Railroad Commission in cutting the state's allowable output for the rest of March.

Output of benzol and toluol received a sizable boost as new facilities began production. Demand of toluol remained well above the quantities currently available as both military and industrial consumers continued active demands. The material reaching the market from the facilities just entering production was reported as chiefly for aviation gasoline use. Production of xylol remained in close balance with demand, as manufacturers were able to fill most consumers' demands but were forced to ship all available material in order to do so.

The wax market was marked by an active demand from domestic consumers and was met without delays in shipping schedules by manufacturers.

The export wax market continued soft, with little expectation of any immediate improvement. Petroleum sulphonate was available in quantities ample for most needs as one major producer recovered from the effects of a strike during February. Petrolatum and white mineral oils remained in good demand, but showed no upward trend. Supplies held adequate for requirements.

Price Trends

Advanced
None

Reduced
None

Comparative Price Indexes
(100=1949 average)

Last week	Prev. week	Last month
104.40	104.40	104.13

(For Current Prices see page 9)

Solvents and Diluents

Benzol—Production of petroleum benzol of all grades other than motor grades, for the month of December, 1952, amounted to 3,160,701 gallons. Total production, from all sources and including motor grade material totaled 23,690,561 gallons during the month. Total production of petroleum benzol for the year 1952 came to 56,874,196 gallons, according to Tariff Commission figures.

Solvent Naphtha—A continued active consumer demand was felt during the past week, taking all current production. The 150° material experienced a particularly heavy use, which the makers stated has kept it in a state of close balance between supply and demand. Heavy demand for 100° material was also in evidence during the past week and this material, while not in a position of shortage, remained in close balance in relation to demand. Call for high flash material was well maintained, with manufacturers able to supply orders of any normal proportions from their present production. Price schedules for all grades of material remained constant while the market offered no indications of any imminent changes in quotations.

Toluol—Production has begun at new facilities, it has been reported, and is expected to add significant amounts to military requirements for aviation gasoline. The shortage of material for this purpose has been a long standing one. Because of the need for toluol for this purpose, the amounts available for industrial users from the newly completed facilities were not expected by trade observers to reach significant totals. The pinch in supplies currently felt has been intensified by extensive government requirements for nitration purposes as well. Price schedules remained unchanged and trade observers expected no revisions in the immediate future.

VM&P Naphtha—Demand for the material remained close to levels of recent weeks and was filled without difficulty from current production. A continued comfortable balance between supply and demand was expected by trade observers, who saw no factors in the current situation to alter the price or supply status.

Xylol—The material occupied a position of close balance as demand was maintained at the levels of the past thirty days and gave some indication of increasing. Industrial use has received a boost from the current tight position of toluol. Some producers have found it necessary to turn facilities capable of both toluol and xylol production to the scarcer material. The situation of close balance in supplies was expected in the trade to continue for the immediate future. No price changes during that period have been expected.

Crude Oil Stocks

Stocks of domestic and foreign crude petroleum at the close of the week ended February 28 totaled 274,123,000 barrels, according to data reported to the Bureau of Mines. Compared with the total of 272,381,000 barrels for the preceding week, this represents an increase of 1,742,000 barrels comprising an increase of 1,044,000 barrels in stocks of domestic crude and an increase of 698,000 barrels in stock of foreign crude.

Waxes

An increase of 6.2 percent in domestic demand for petroleum waxes during 1952 has been reported by the Bureau of Mines. Demand in 1952 totaled 3,443,000 barrels, as compared with the 1951 total of 3,246,000 barrels. Wax production fell off during the year, when a total of 4,331,000 barrels was reached, 483,000 barrels below the total production for 1951. Exports also showed a decline, the total for 1952 reaching 1,036,000 barrels as compared with the 1951 total of 1,349,000 barrels.

Microcrystalline—The market showed no outstanding feature during the past week, as demand continued at the fairly good levels of the past thirty days. Manufacturers have reported experiencing no difficulty in filling orders, although most stated that they were shipping close to all of their current production. The price picture has shown no changes in the past week as all quotations remained steady.

Paraffin—The current status was described as healthy by trade observers, who pointed out that demand has come close to taking all of the material available from current production. A slow export demand remained a weak feature of the market and showed no indication of picking up in the near future. Quotations were held as previously reported.

Lighter Fractions

LPG's—Total demand for liquefied petroleum gases increased 7.35 percent in 1952 over 1951, according to figures released by the Bureau of Mines. The total demand in 1952 came to 110,931,000 barrels, as compared with the total of 103,475,000 barrels during 1951. Increases in both domestic and export demand combined to form the total gain for the year. Production during 1952 dropped to 30,968,000 barrels from the 1951 total of 33,045,000. Stocks declined during the year, standing at 638,000 barrels at the end of 1952, 30,000 barrels below the comparable figure at the end of 1951.

Miscellaneous

Crude Oil—Proved reserves of liquid petroleum totaled 32.9 billion barrels as of December 31, 1952, according to a report released by the American Petroleum Institute. This total represents an increase of 764 million barrels over the top figure for 1951.

Natural Gas—An increase in proved reserves of 5.9 trillion cubic feet was reported for 1952 by the American Petroleum Institute. The year's end total reached 199.7 trillion cubic feet. Production during the year was reported as 8.6 trillion feet, an increase of 672 billion cubic feet over 1951.

Los Angeles Petroleum Market

The market for solvents and diluents witnessed little change over the week with supplies adequate and demand remaining at a good level. Quotations were unchanged as follows:—Lacquer diluent, 18.3c. per gallon, tankwagon, ex-tax, f.o.b., Los Angeles Basin area; cleaning solvents, including Stoddard, 17.3c. per gallon, same basis.

For Late Market Developments, See Page 4

Sun Appoints Parmelee, Reinhard Office Managers

The Sun Oil Company, Philadelphia, has announced the appointment of Maurice B. Parmelee to the newly-created post of office manager for the general sales department in Philadelphia and the naming of Frederick W. Reinhard to succeed Mr. Parmelee as office manager of the western regional sales office, Detroit, Mich.

Mr. Parmelee has been with the company since 1932. In 1940 he became office manager at Wheeling, W. Va., and three years later assumed a similar position at Flint, Mich. He became western regional office manager in 1944. Mr. Reinhard joined Sun in 1935 in the Allentown, Pa., sales office. In 1943 he was transferred to the general office in Philadelphia. The next year he became manager of the Lansing, Mich., sales office and in 1950 took on similar duties at Syracuse, N. Y.

Cryolite Export Rules Easing Made by NPA

Exports of cryolite to countries other than Canada may be made hereafter by persons licensed by the Office of International Trade to purchase and export the material, without further authorization from the National Production Authority, it was announced last week.

Announcing an amendment of NPA Order M-99, NPA officials said it eliminates a certain amount of paper work. While OIT will process the export licenses in the future without special NPA authorization, the quantities of cryolite to be exported must be within the established export quotas. The order as amended provides that cryolite cannot be purchased and exported to Canada from the United States except to fill an order which bears the approval of the Canadian Department of Defense Production. Canada's cryolite supply for production of primary aluminum is obtain direct from Denmark.

Exports of cryolite are permissible only upon certification by the exporter that the transaction in question is carried out under the provisions of NPA Order M-99. NPA officials said that, although synthetic cryolite is being produced in this country, the requirements for both natural and synthetic cryolite are in excess of the supply, and will continue to be so until the domestic aluminum expansion program is completed.

Shell Oil Company Elects Spaght, Galloway Directors

M. E. Spaght and A. J. Galloway, Shell Oil Company executives with headquarters in New York, have been elected to the board of directors. Mr. Spaght, formerly president of the Shell Development Company, the research affiliate, was recently appointed executive vice-president of Shell Oil. Mr. Galloway is vice-president in charge of the company's exploration and production activities in the United States and Canada.

NPC Study Group Named

The National Petroleum Council last week appointed a committee on oil and gas exploratory development requirements at the request of the Petroleum Administration for Defense. The committee will make a study of the minimum requirements of manpower, equipment and materials for all phases of oil and gas exploration and development.

Gas, Oil Leases Offered

A total of 120 acres of Louisiana land will be offered for gas and oil leasing at a competitive bid sale to be held by the Bureau of Land Management April 8 at 1 p.m., EST. The land is offered in one parcel in the known geologic structure of the Caddo Field, which is located approximately twenty-five miles from Shreveport, in Caddo Parish, La.

Oil Industry Information Committee Position Resumed by H. B. Miller

H. B. Miller has resumed his duties as executive director of the Oil Industry Information Committee and director of the department of information of the American Petroleum Institute. Mr. Miller had been on leave-of-absence for one year to serve as president of the National Committee for a Free Europe. Concurrent with Mr. Miller's return to the Oil Industry Information Committee, Edwin W. Esmay, who had served as acting director during Mr. Miller's absence, returns to his regular position with Standard Oil Company (New Jersey).

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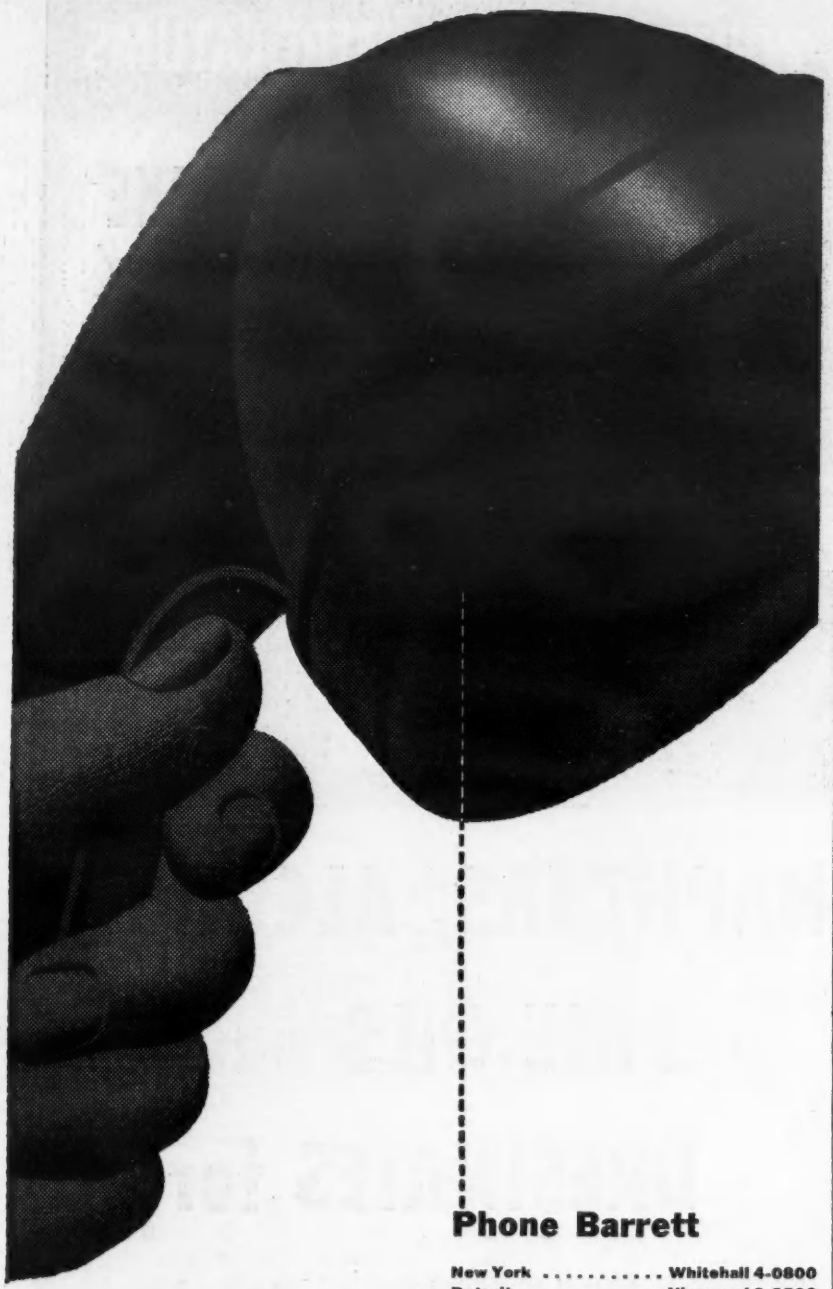

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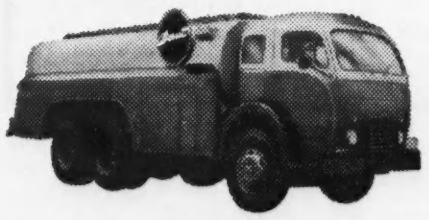

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Coal Chemicals

The price of imported ADF cresylic acid was reduced 10c. per gallon last week, one supplier announced. Other chemicals in this market remained at old levels.

OPS revoked ceiling price controls on chemicals which were under C.P.R. 22. There was no immediate price reaction reported.

Benzol was still in an excellent balance. Demand has kept this market firm. Toluol was still in very short supply. The combination of government requirements and industrial demand has put the market in a squeeze. Some additional petroleum source material was beginning to become available, but not much relief was anticipated for coaltar toluol from this direction. The other important light oil, xylol, was still enjoying excellent demand.

The volume of sales for most of the tar acid was not too heavy, but some sources were satisfied with current activity. The healthiest sign in the tar acid picture was that they have held their ground. Demand has not slipped any since the December setback. The cresols were moving slowly. Some orthocresol was said to be available. Domestic cresylic acid was in a similar position, demand was modest and no pick-up was apparent yet. Sales of imported ADF acid ranged from moderate to poor, according to various importers.

There was no significant change in the naphthalene market. Domestic crude and refined material have not shown any increases in demand. The market for imported hot-pressed naphthalene was still slow. One importer said that there has been some interest in refined material in recent weeks.

Steel production during the week ending March 7, set a new weekly record for the industry while operations exceeded 100 percent for the first time this year. The record production was 2,262,000 tons in that week, compared with the previous high of 2,248,000 tons the week ending January 24, and the week ending February 14. Operations last week were scheduled to be 99.9 percent of theoretical capacity, equivalent to 2,252,000 tons of steel, compared with 2,211,000 tons one year ago.

Price Trends

Advanced
None

Reduced
Acid, cresylic, imp., ADF, 10c. per gal.

Comparative Price Indexes
(100=1949 average)

Last week	Prev. week	Last month	March 14, 1952
113.22	113.24	113.24	113.71

(*For Current Prices see page 9*)

Basic Products

Benzol—There has been no particular change in the market for this aromatic. Demand for coaltar benzol has been quite brisk during the past several months. Consequently current production was frequently moving right from the producing plant to customers. Although there was no critical shortage of this light oil, consumers were willing to buy just about all of the coaltar sources material that they could get. Hence, there were no surplus supplies around.

December production of all grades other than motor benzol amounted to 23,494,048 gallons, information from the Tariff Commission relates. The preliminary total for the same grades produced in 1952 was 245,221,621 gallons.

Breaking down the December total, the commission indicated that cokeoven operators produced 15,853,188 gallons, tar distillers put out 3,160,701 gallons, and petroleum producers accounted for 4,480,159 gallons of all grades except motor grade. In addition, cokeoven operators also produced 196,513 gallons of motor benzol in December.

Cokeoven operators produced 153,844,435 gallons of benzol towards the yearly total, excluding motor grade output. Tar distillers produced 56,874,196 gallons of the preliminary figure for last year and, petroleum operators produced 34,502,990 gallons. The 1952 output of motor benzol by cokeoven operators was 1,884,665 gallons. Output figures of motor grade by petroleum operators and tar distillers were not available.

Coal Chemicals

Estimated output of coal chemicals recovered from cokeoven operations during the week ending March 14, was as follows:—

Ammonia liquid, NH_3	lbs.	1,052,957
Ammonia sulphate	lbs.	38,056,867
Benzol	gals.	3,640,222
Coaltar	gals.	16,696,000
Creosote oil	gals.	932,619
Naphthalene, crude	lbs.	2,572,223
Pyridin, refined	lbs.	27,076
Toluol	gals.	716,011
Xylol	gals.	191,036

Creosote—Producers reported that activity for this material was fairly good. Sales were at a reasonable good level, due to an adequate demand. Although consumer requirements were not heavy, suppliers were satisfied with the number of calls, it was said. The fact that demand has been good enough to allow the market to support the recent price increase was given as evidence of the comparative strength of the market.

Total production of creosote by tar distillers and cokeoven operators amounted to 12,897,044 gallons in December, information from the Tariff Commission relates. Tar distillers produced 8,986,887 gallons that month, while cokeoven operators put out 3,910,157 gallons.

The preliminary statistics for 1952 show that total output of tar distillers and cokeoven operators was 142,305,307 gallons. Tar distillers accounted for 100,678,168 gallons of the figure, and cokeoven operators produced 41,627,139 gallons.

Cresols—A source said that the market for the cresols was generally satisfactory. Demand was not exceptionally high, but it has kept to the same approximate levels since December. It was said that there was some orthocresol available.

Demand for the tar acids during the first two-and-one-half months of the year has not shown any dynamic characteristics. The market has merely held its own ground. Some sources were disappointed with the activity thus far, because they had been looking for a pickup in buying in the first quarter. Requirements for cresylic resins have not been up to former levels.

Total production of metaparacresol from all sources amounted to 10,630,497 pounds in 1952, according to information from the Tariff Commission. Preliminary figures for the year's output of ortho-meta-para mixed isomers were at 7,890,675 pounds.

December production of orthometa-paracresol was reported by the commission as being 1,047,682 pounds. Production figures for December output of meta-para isomers were not available.

Cresylic Acid—There was no significant change in the market for this tar acid. Demand was not particularly high, but it was considered satisfactory. Sales have held to the same moderate levels since the beginning of the year. The pickup in demand, which had been anticipated for the first quarter, never has developed. Prices have remained at their previously established levels.

One importer announced a 10c. per gallon reduction in the price of standard ADF cresylic acid. The decrease has been the result of foreign suppliers attempting to induce buying by increasing the differential between imported and domestic material. Sales in the past few months have largely been on a hand-to-mouth basis, with only a modest amount of sales being made. The current range in prices was from 75c. to 95c. per gallon, depending upon quantity.

Total production of refined cresylic acid in December was 3,518,981 pounds, information from the Tariff Commission indicates. The preliminary figures for 1952 output of refined material set production at 39,326,104 pounds.

Naphthalene—Domestic producers said that there has been no significant change in the market for crude naphthalene. Demand has not been too strong lately, but a modest amount of material has been moving to contract customers. It was said that there was some material available. Requirements of refined naphthalene for mothcontrol have not shown the start of their seasonal pickup yet.

The market for imported 78-degree crude material has been quite dull. Prices have held to the 3½c. per pound level, but some offers were reported under that figure. The general market price was still considered to be at 3½c.

Tar distillers and cokeoven operators produced 28,063,510 pounds of crude naphthalene, solidifying at less than 79°C.,

For Late Market Developments, See Page 4

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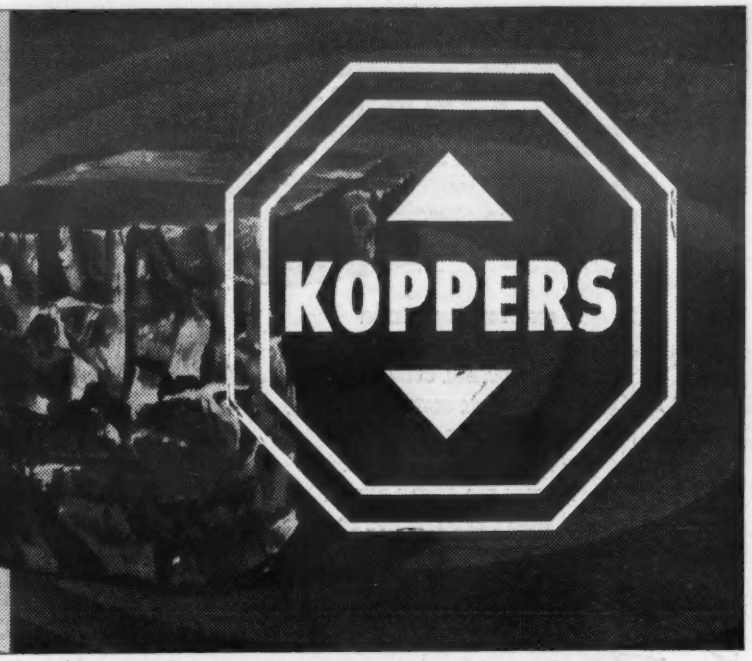

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in December, according to the Tariff Commission. Tar distillers produced 16,394,732 pounds of the figure, while cokeoven operators put out 11,668,778 pounds.

Preliminary statistics for 1952 indicated that total crude production was 337,981,733 pounds. The breakdown of this figure shows that tar distillers accounted for 228,232,971 pounds and cokeoven operators produced 109,748,762 pounds.

The report also showed that tar distillation production in December accounted for 7,301,203 pounds of refined material solidifying at 79°C. and over. The preliminary total for the year showed that 78,680,937 pounds of refined naphthalene were produced.

Phenol—Natural phenol continued to be the best moving tar acid for some sources. A good part of the better activity in the phenol picture was due to the continued large demand for phenolic resins and adhesives.

Synthetic phenol producers said that they have been enjoying fairly good activity for phenol. It was felt that the overall market picture for phenol would remain relatively firm as long as phenolic resins kept up the pace. Phenolic resin producers were anticipating a good sales period during the first half of the year, at least. The gradual acceptance of shell moulding by the foundries was expected to be speeded up this year, consequently, becoming a large outlet for phenolic resins and phenol.

December production of synthetic and natural material of technical and USP grades in December totaled 34,992,931 pounds, the Tariff Commission reported. Preliminary statistics for the year indicate that total output was 363,786,795 pounds in 1952.

Pyridin—Current demand for 2-degree material was still greater than the amount of material available. Some sources felt that the market would continue in tight supply. One producer said that the backlog of orders were showing signs of increasing again. Some progress towards whittling down the number of backorders was made during the first two months of the year.

Another source stated that there have been some definite trends towards softening in the tar bases. Demand for gammapicoline has been dead, along with the market for isonicotinic acid. Synthetic pyridin, such as methylethyl pyridin and methylvinyl pyridin, have cut into the markets for natural tar bases. Inquiries for alphapicoline have dropped-off, but no surplus has developed.

Toluol—Demand for this solvent continued to outstrip supply. Producers were unable to make enough material to satisfy the joint requirements of government and industry. Defense needs of toluol to be nitrated at the arsenals and toluol in aviation gasoline, have been very heavy. Indications were that these requirements would be increasing in coming months.

A source of some possible relief was seen in the construction of plants by petroleum operators. One such plant has just gone on stream with a yearly output capacity of 33,000,000 gallons of toluol and 19,000,000 gallons of benzol, it was said. The bulk of the toluol produced by the petroleum plants under construction was expected to do more for the aviation gasoline needs than for T.N.T. requirements. However, some slight effects of relief could take place through redistribution of material already channelled to aviation gasoline in the midwest. Some producers felt that the effect upon coaltar material would not be drastic since the greater part of cokeoven production was going into T.N.T. output.

Xylol—The market for this solvent was in an excellent balance producers said. Demand for xylol from industrial finishes and lacquers has been rather good. The tightness in the toluol market has added to the overall demand for xylol. Prices have remained at their old levels.

Intermediates

Alphapicoline—There was no particular change in the market for this tar base. Demand for alpha has dropped off somewhat. It was said that the reduced calls for alpha have not resulted in a surplus of material because of its use in denaturing pyridin.

Phthalic Anhydride—Demand for phthalic has been sustained at quite a good level. Requirements from alkyd resins remained high. There were some indications that slight increases in demand from plasticizers were coming with the spring paint season. Prices remained at old levels.

December production of phthalic totaled 19,977,541 pounds, according to Tariff Commission figures. The preliminary total for 1952 was set at 234,525,720 pounds.

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Imports From Red Areas Ordered to Be So-Marked

The Bureau of Customs ruled last week that products imported into the United States which had been manufactured or produced in the Soviet zone of Germany must be marked to indicate Germany (Soviet occupied) as the "country of origin." Products coming from the Federal Republic of Germany or the western sector of Berlin need only be marked to show Germany as the country of origin.

Articles manufactured or produced in Poland, in an area under the provisional administration of Poland immediately east of the Oder-Neisse line and in East Prussia, or in the former Free City of Danzig must be marked to indicate Poland as the country of origin. Articles manufactured or produced in the area of East Prussia under the provisional administration of the Soviet Union must be marked to indicate the Union of Soviet Socialist Republics as the country of origin.

The new rule becomes effective as to articles entering the United States ninety days after publication of the ruling in the weekly "Treasury Decisions."

Tungsten, Molybdenum Get 2nd Quarter Export Quotas

Second quarter 1953 export quotas for tungsten and molybdenum were announced March 13 by the Department of Commerce.

For tungsten a quota of 11,000 pounds (tungsten content) has been set for metals and alloys in crude forms, which is the same quantity made available during the last two quarters.

The molybdenum quota was established at 1,800,000 pounds for ores and concentrates, ferro molybdenum and calcium molybdate. This is the same as the initial first quarter quota, which was increased to 2,100,000 pounds. In addition, a quota of 10,000 pounds was established for exports of molybdenum metal and alloys in crude form and a quota of 5,000 pounds was established for reagent grade molybdenum chemicals, ammonium molybdate, molybdenum salts and compounds and molybdenum lubricants formulated from molybdenum disulphide. This is 2,000 pounds more than the first quarter quota.

Koppers Tar Post to Kenan

Appointment of R. C. Kenan as assistant sales manager of the midwestern district of the tar products division of Koppers Company, Pittsburgh, Pa., has been announced by J. C. Mason, sales manager of the division. Mr. Kenan joined the division in 1936, was named administrative assistant to the sales manager in 1949, and last year was transferred to the hot applied coatings section of the midwestern sales district.

Nat'l Aniline Names Wolley

Berne L. Wolley has been appointed supervisor of chemical research in the research and development department of the National Aniline Division of the Allied Chemical and Dye Corporation at Buffalo, N. Y. Succeeding him in his former position as group leader on intermediates is George F. Lisk.

Rand Appointment Approved

William M. Rand, retired former president of the Monsanto Chemical Company, St. Louis, Mo., was confirmed as Deputy Director for Mutual Security by the senate March 11. Mr. Rand will devote his attention to development of overseas sources of raw material.

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Textile and Leather Chemicals

Consumers continued to take moderate quantities of textile and leather chemicals for immediate delivery, while few buyers booked business for 30-day requirements. Market remained on a steady basis, with most items quotably unchanged. Egg yolk was stronger and lifted 4 cents per pound. Technical egg albumen also was raised 2 cents per pound, while flake albumen dropped 7 cents per pound.

In sizing materials, corn dextrin and starch continued to move in good volume for prompt needs. Demand for potato starch was fairly active for spot delivery. Domestic starch was in better supply for shipments from Maine. Interest slackened in imported potato starch, resulting in an easier tone in this material. Stocks of high grade tapioca flour were scarcer. Arrivals from Java due in mid-April were expected to alleviate the tight supply condition of this market. Sago flour was in fair request for spot delivery.

Tanners limited interest in tanning material replacements to an occasional moderate quantity for prompt shipment. Primary markets, however, remained unchanged and steady.

Rayon and acetate broad woven good production rose 8 percent to 499,000,000 linear yards, during the last quarter of 1952, according to the Census Bureau. Nylon broad woven fabric output increased to 70,000,000 linear yards in the same quarter. Rayon and acetate, 100 percent fabric increased from 90,000,000 linear yards in the third quarter to 105,000,000 pounds in the fourth, while production of 100 percent filament fabrics jumped from 259,000,000 to 269,000,000 linear yards during the same period.

Mohair production in the seven principal producing states in 1952 is estimated at 12,116,000 pounds, according to the Bureau of Agricultural Economics. The 1952 clip is six percent smaller than the 12,888,000 pounds produced in 1951 and 34 percent below the 10-year average of 18,473,000 pounds. The current production is the lowest since 1925. Except for the 1950 clip, mohair production has declined each year since 1945, when a record high of 22,008,000 pounds was produced.

Price Trends

Advanced

Egg albumen, tech., 2c. per lb.
yolk, 4c. per lb.

Reduced

Egg albumen, flake, 7c. per lb.

Comparative Price Indexes

(100=1949 average)

Last week	Prev. week	Last month	March 14, 1952
103.09	103.09	103.09	92.58

(For Current Prices see page 9)

Chemicals

Acetic Anhydride—Production during December was indicated at 72,855,050 pounds by the Census Bureau, compared with 69,515,230 pounds in November and 67,032,280 pounds, December, 1951. Preliminary figures placed the 1952 production at 693,453,690 pounds. Demand was fairly active against former contracts, while new business was spotty for immediate needs. Prices were without change.

Bichromates—Deliveries against contracts were in steady request. New business was confined to actual needs. Prices were firm and unchanged.

Sodium Acetate — Consumers absorbed moderate quantities for prompt requirements. Quotations were held at former levels.

Sodium Hydrosulphite—Moderate demand was reported for prompt requirements. Supplies were ample. Prices were unchanged and steady.

Sulphonated Oils—Consuming demand continued spotty for actual needs. Prices remained steady for all varieties.

Sizing Materials

Blood Albumin—Buying interest was fairly active for later requirements, though trading was confined to immediate needs. Prices were unchanged at 67c. per pound for drums and up to 80c. for smaller lots. Stocks were adequate to meet current demand.

Corn Dextrin—This market remained unchanged and steady. Consumers continued to take moderate lots for prompt delivery. Gum was quoted at $8.95 per 100 pounds, paper bags, carlots, New York delivery; canary, $8.69; dark, $8.79 and white, $8.53, same basis. Less carlots were 15c. per 100 pounds more.

Corn Starch—Steady consuming demand was noted for prompt delivery. Prices were firm and unchanged. Pearl was quoted at $7.14 per 100 pounds, paper bags, carlots, New York, and powder, $7.26, same basis. Less carlots were 15c. higher. Visible corn supply continued to decline, dropping 2,102,000 bushels to 38,792,000 bushels for the week ended March 6, compared with 57,964,000 bushels for the same time last year, according to the Chicago Board of Trade. The national average price support for 1953 corn crop will be $1.58 per bushel it was announced by the Department of Agriculture and represents 90 percent of the February 15, 1953, parity price. The price will be revised upward if the 90 percent of parity October 1 is higher than the announced figure. However, in no event will the national average be lower than this minimum price. The support program will be carried out through CCC loans and purchase agreements as in previous years. The 1952 crop corn national average price is $1.60 per bushel, which is 90 percent of the parity price as of October 1, 1952, the beginning of the current marketing year.

Egg Albumen—This market was lower, but yolk prices were advanced. Demand for albumen was fairly active for immediate requirements. Flake was reduced to $2.49 to $2.51 per pound and powder to $2.53 to $2.55 per pound, according to quantity. Technical was firmer and raised to $1.03 to $1.07 per pound, as to quantity.

Egg Yolk—Prices were lifted 4c. per pound. Stocks were in limited supply and closely held. Quotations ranged from $1.10 to $1.12 per pound, according to quantity. Demand was quite active for prompt requirements.

Potato Starch—Business was reported light and spotty. Domestic starch was unchanged and held at 7½c. per pound, carlots, f.o.b. Maine. Trading was reported at this level. Interest in imported starch lagged and shipments were nominal at 8.50c. per pound, carlots duty paid, exdock. Spot stocks were unchanged at 9½c. to 10¼c. per pound, exwarehouse, depending upon quantity.

Rice Starch—Demand was confined to small lots for spot delivery. Quotations were unchanged at 16c. to 17c. per pound, exwarehouse, as to quantity.

Sago Flour—Consuming demand was more active for immediate delivery. Market was unchanged and steady. Raw was quoted at 7¾c. to 8c. per pound and refined at 9¼c. to 9½c. per pound, according to quantity. Shipments ranged from 7c. to 7¼c. per pound, carlots exdock.

Tapioca Flour—High grades continued in tight supply and quotations were merely nominal at 14c. to 20c. per pound, exwarehouse, as to seller and buyer. Siamese of good quality was quoted at 10c. per pound, f.o.b. New York. Supplies from Java were due to arrive in the middle of next month and were expected to improve the supply situation.

Tanning Materials

Chestnut Extract—Trading was fairly active for immediate delivery. Stocks were in limited supply and well held. Extract 25 percent tannin was quoted at 4¼c. per pound, tankcars, f.o.b. works and 5.1c. per pound barrels, carlots, same basis.

Cutch—Shipments continued firm at 8¼c. per pound, exdock, plus duty. Offerings were light.

Quebracho Extract—While trading was limited to prompt shipment, the market remained unchanged and steady at prevailing quotations. Solid ordinary was quoted at 11 31/64c. per pound, carlots, exdock, and clarified, 12 3/16c., same basis, plus duty.

Spruce Extract—Business was quiet. Swedish powdered extract was unchanged at 4c. per pound, exdock.

Sumac Leaf—Inquiry for shipment continued slow. Leaf was offered for prompt shipment at $120 per ton, exdock, carlots.

Valonia—Shipments remained steady, despite limited buying interest. All grades were maintained at former levels. Extract was quoted at 10c. per pound, exdock, plus duty. Beards were unchanged at $85 per ton and cups, $64, same basis.

Wattle—While consuming inquiry was slow, the market remained steady at prevailing quotations. Fair average was quoted at $104 per ton, exdock and merchantable, $100 per ton, same basis. South African extract was held at 11⅛c. per pound and East African, 10⅞c. per pound, exdock, plus duty.

For Late Market Developments, See Page 4

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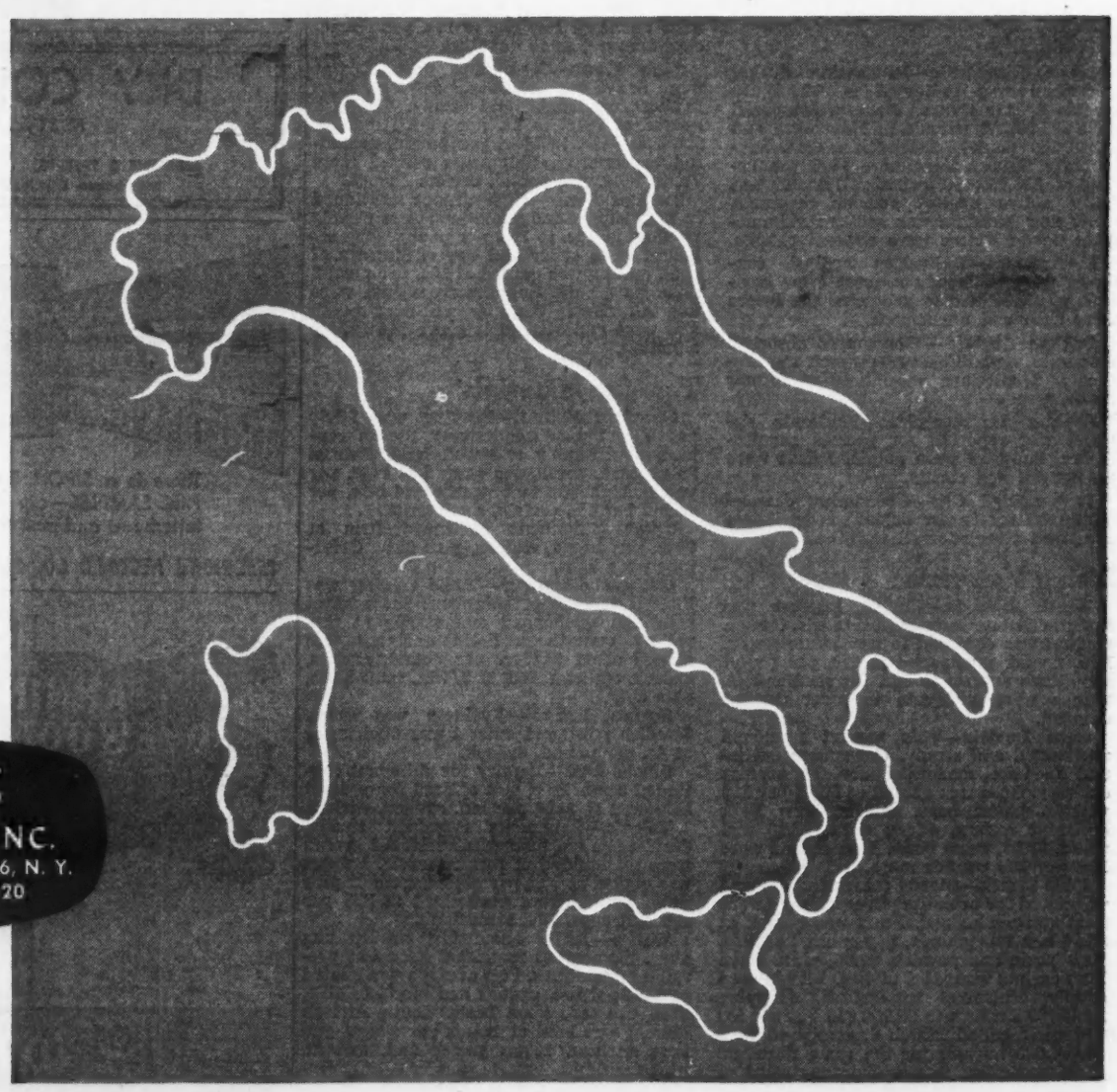

Drugs and Fine Chemicals

Amphetamine salts were reduced last week by a major producer. The reductions were said to be due to lowered manufacturing costs, increased usage and intensified competition. The racemic forms were down $1 per pound and the dextrorotary forms, $4. Racemic desoxyephedrine hydrochloride was also reduced, being cut $1 per pound. Announcements were made of price boosts, effective April 1, 1953, on both ethyl and isopropyl alcohols. Ethyl alcohol price schedules are slated to be upped 8c. per gallon on that date. Both contract and spot sales will be affected. Most alcohol business during the past quarter has been done on contract but spot prices on ethyl alcohol had been substantially higher than those on contract sales, with the exception of one producer who had maintained the identical price for both types of sales. In effect, then, spot prices will be some 7c. per gallon lower, after the first of April.

The strength of the alcohol market can be attributed to the strong demand for ethyl alcohol. The large purchase of alcohol by the RFC for its rubber program earlier this year lightened inventories appreciably. It has been bruited about in the trade that RFC requirements for alcohol may go as high as 80,000,000 gallons for the year. The increase in isopropyl alcohol prices also scheduled for the same date as the ethanol advance will push isopropyl prices higher than they have been in recent years.

Demand for refined glycerin continued strong and producers reported that supplies had become easier as a result of increased importation of glycerin in addition to stepped up domestic production. Prices were firm and unchanged but the continued high cost of crude might affect a change at a later date. Glycerin prices have been decontrolled, it was learned last week. The decontrolling order was included in an earlier round of price decontrol actions.

Natural menthol prices have leveled off and last week saw no change from the preceding week. High replacement costs at primary sources were expected to keep prices up, however, for the time being. Cocoa butter has eased off in price but the recent decontrolling action on cocoa beans and by-products may result in rising prices. Cocoa bean supplies from west Africa were said to be falling off due to a smaller crop.

Agar-agar prices have slipped as the new crop material comes in at a greater rate. Demand was about fair. Domestic manufacturers of brucine alkaloid and sulphate have been hard pressed by the price competition of lower cost imported materials. Labor costs in this country are, of course, much higher than abroad. Imported brucine and brucine sulphate have been selling well below the domestic schedule.

Agar—Demand for agar was fair, generally speaking. Supplies were coming in more steadily and were said to be ample for current inquiry. Prices have eased and Kobe No. 1 strip was currently quoted from $1.95 to $2.00 per pound while the powdered, 30 mesh material was pegged at $2.25 per pound.

Alcohol—Demand for ethyl alcohol was said to be quite good. Supplies were ample for current inquiry and prices were very firm. It was learned that alcohol prices would be advanced April 1 by at least two producers. It was expected that other producers would follow suit in view of the expanding consumption of alcohol and the increased cost of blackstrap molasses used in the fermentation process for the manufacture of alcohol. The increase in price has been slated for 8c. per gallon. Spot prices for alcohol during the first quarter of the year have been pegged at 55c. per gallon while contract alcohol has been sold at 40c. per gallon. It was the intention, on the part of one producer, at least, to set both his spot and contract prices at 48c. per gallon as of April 1, 1953.

The purchase by the Reconstruction Finance Corporation of 15,000,000 gallons of alcohol early this year for its synthetic rubber program bolstered the market appreciably. There was further indication that the RFC may be in line for continued heavy purchasing of alcohol for this use in coming months.

Blackstrap molasses prices have firmed considerably and the current market situation was in marked contrast to that at this time last year. The bulk of the 1952 crop was not sold heavily until late 1952 at a price of 4c. per gallon to alcohol distillers. Partially as a result of the excess of sugar on the world market and partially as a result of the enormous supplies of blackstrap which put Cuba into a poor bargaining condition, this year's crop of blackstrap was considerably smaller than that in 1952. The result has been that an estimated 65 percent of the 1953 blackstrap molasses output has been sold at substantially increased prices. Late last week it was learned that Cuban molasses prices were up around 9c. per gallon, a price which was double that paid last year for blackstrap. As a result, it was felt that fermentation alcohl producers might find it necessary to boost prices higher than those presently scheduled at a later date this year.

With the defense program scheduled to step up its output and adequate steel supplies for the production of civilian consumer items assured, the currently strong demand for alcohol and similar solvent materials was expected to continue good. Consumption of lacquers in 1953 has been forecast by some trade observers to increase 15 percent over last year's.

Amphetamine Salts—Price cuts were announced last week on the entire line of amphetamine salts. The increased use of the compounds and improvements in manufacturing processes plus intensified competition were said to be the reasons for the reduction.

Currently the racemic amphetamine salts, which includes amphetamine hydrochloride, phosphate and sulphate were reduced to $6 per pound. The dextro forms of these salts were dropped to $28 per pound, an overall reduction of $4 per pound.

Bile Products—The market for bile derivatives weakened notably in the past month. Cholic acid was currently listed from $9.25 to $10 per pound in lots of from 25 to 100 pounds. Dehydrocholic acid, injectable grade, was quoted at $20 per pound, while the oral grade was quoted $3 per pound lower. Desoxycholic acid prices slipped slightly, with current quotations ranging from $22.75 to $23.50 per pound. Cholesterol, made from cattle spinal cords, was substantially lower priced than formerly, with current quotations at $6.85 per pound, in 100-pound lots.

Brucine—Demand for brucine alkaloid was fair, on the whole and supplies were ample for current requirements. Considerable quantities of imported material have invaded the domestic market and have been giving producers here considerable competition, pricewise. Domestic manufacturing costs have been much higher than those abroad, principally due to higher labor costs here.

Currently on the high side of brucine alkaloid and sulphate quotations were domestic producers with prices at 35c. and 30c. per ounce, respectively, in 100-ounce lots. Imported brucine alkaloid and sulphate were quoted as low as 20c. and 15c. per ounce, respectively, although there were some in the trade who maintained that these quotations applied principally to distress lots. Despite heavy competition afforded by imports, domestic manufacture of brucine has been substantial since it is necessary to make brucine as a preliminary step in the manufacture of strychnine from nux vomica.

Domestic producers claim they are selling brucine steadily to manufacturers of medicinals and to alcohol producers for use as a denaturant due to the fact that they offer a reliable source of supply and quality material. These points were taken in issue, however, by other trade sources and it has been conversely reported that a substantial quantity of the brucine used in alcohol denaturing operations is the lower-priced imported material.

Castor Oil—Arrivals of beans at Philadelphia and New York ports last week amounted to 2,341,200 pounds, as compared with 2,566,350 the previous week,

For Late Market Developments, See Page 4

Market Trends

Advanced

None

Reduced

Amphetamine salts, dextro, $4 per lb.
racemic, $1 per lb.
Desoxyephedrine hydrochloride, racemic, $1 per lb.

Comparative Price Indexes

(100=1949 average)

Last week	Prev. week	Last month	March 14, 1952
90.99	91.16	91.28	98.22

(*For Current Prices see page 9*)

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and 4,265,850 during the corresponding week of last year. Imports of castor oil at these ports last week totaled 1,904,000 pounds, as against the 566,400 pounds brought in during the previous week, and the 1,089,000 pounds landed during the corresponding week of 1952.

Total imports of beans so far this year at Philadelphia and New York amounted to 34,971,300 pounds, compared with 41,876,550 pounds during the corresponding period in 1952. Total oil imports at these ports so far this year amounted to 17,136,850 pounds, as against the 20,285,000 pounds brought in during the same period last year.

Desoxyephedrine Hydrochloride — The price of racemic desoxyephedrine hydrochloride was reduced last week to $6.50 per pound, a decline of $1 from the previous price. The dextrorotary form of this compound was not changed in price. The reduction in the old form was said to be due to greater economies achieved in its manufacture as a result of stepped up consumption in addition to intensified competition.

Glycerin—Demand for glycerin was steady and at high levels. The supply situation was gradually coming more into balance with demand. Glycerin was exempted from price control by the Office of Price Stabilization in a recent decontrol order. Additional details on the decontrolling action will be found elsewhere in this issue.

Imports of glycerin were substantial in January according to recently released data. Of the imports for consumption, some 3,502,121 pounds were crude (80 percent) glycerin and 1,783,039 pounds refined (98 percent). On a 100 percent basis, total imports for consumption aggregated 2,801,697 pounds of crude and 1,747,378 pounds of refined grade.

Exports of glycerin in January totaled 119,000 pounds compared to 70,000 pounds in December last year and 340,000 pounds in January, 1952. Stocks of glycerin at the beginning of January, 1953, totaled 37,716,000 pounds compared to 37,964,000 pounds in December and 55,727,000 pounds at the beginning of January last year. The excess of glycerin disappearance over production totaled 1,538,000 pounds for January compared to 2,847,000 pounds in December, 1952. Production in January, 1952, however, exceeded glycerin disappearance by 1,274,000 pounds.

Isopropyl Alcohol—Major producers announced last week that, effective, April 1, isopropyl alcohol prices will be advanced 3c. per gallon, across the board. Demand for isopropyl alcohol has improved, according to producers and supplies have remained ample for current inquiry.

Menthol — Natural menthol prices leveled off in the past week. Demand was quiet and Brazilian material was quoted at $6 per pound, duty paid. The Japanese material ranged from $7 to $7.25 per pound and was also in slow demand. With replacement costs at primary sources remaining firm, menthol prices were not expected to make any downward trend in the immediate future. Producers of synthetic menthol were pleased over the recent upward movement in natural menthol prices. The synthetic, racemic menthol price was unchanged at $4.95 per pound, in lots of 25 pounds or more. With the current price differential between the natural and the synthetic racemic material at slightly more than a dollar, producers of synthetic menthol have been able to breathe more freely. With this year's crop of Brazilian menthol expected to be smaller, consumers here may buy increasing amounts of synthetic menthol. This, however, remains a matter for conjecture since overall consumption of menthol should fall off in the coming months of

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warmer weather. To what extent prices will be effected remains to be seen.

Methanol—Producers of synthetic methanol report that demand has been strong for this alcohol. Supplies were more or less ample, on an industry-wide basis, although there have been some delays in delivery. Despite the rather mild winter and the resulting decrease in the consumption of methanol in antifreeze manufacture, the many and diversified uses for this compound have kept demand at high levels.

Heavy production of formaldehyde has accounted for substantial quantities of methanol. The demands of the armed forces and various research groups for methanol has been a factor in the consumption picture. Methanol finds considerable use as an admixture in aviation fuels.

Methanol prices were said to be quite firm and no changes were anticipated in the immediate future. Production of synthetic methanol in December last year totaled 103,212,031 pounds. The preliminary total for the year aggregated 1,043,739,447 pounds, according to the Tariff Commission.

Demand for natural methanol was going well. Since virtually all of this material produced goes into alcohol as a denaturant, as alcohol production goes so goes natural methanol consumption.

Production of natural methanol in December, 1952, totaled 1,142,080 pounds. The preliminary figure for 1952 production was 14,853,680 pounds, according to the Tariff Commission.

Milk Powder—The market in nonfat dry milk solids was barely steady to weak. Demand was light and offerings excessive. Buying interest was generally confined to bare needs, according to reports from within the trade. It was also reported that many producers were increasing their offerings to the Credit Commodity Corporation.

Purchases of spray process nonfat dry milk solids totaled 14,336,839 pounds in the week ended March 5, 1953, bringing the aggregate to date to 127,321,854 pounds in the 1952-53 year. Roller process purchases total 877,935 pounds, making a total of 2,614,886 pounds to date.

Production, stocks, and manufacturers' selling prices of total nonfat dry milk solids were the highest of record for January, the Bureau of Agricultural Economics reported.

Total nonfat dry milk solids production of 78,000,000 pounds in January was 72 percent higher than that of a year earlier and 57 percent above the five-year January average. The January production was nearly 10,000,000 pounds above the second highest January output of 68,138,000 pounds in 1950.

The output of spray-dried nonfat solids for January was estimated at 64,500,000 pounds, highest of record for the month, up 85 percent from a year earlier and 83 percent from the five-year average. The second highest production for the month was in 1950 when 47,198,000 pounds were produced. The January output of roller-dried nonfat milk solids, at 13,500,000 pounds, was the highest for the month since 1950, up 29 percent from a year earlier but down 7 percent from the January, 1947-51 average.

Molasses — Feed molasses prices continued steady at most points during the week ended March 10, 1953. Beet molasses prices increased $2 per ton in eastern Rocky Mountain area from $31 to $33. Demand for beet molasses was generally good throughout beet area. Cane blackstrap demand was slow to moderate at all Gulf points except Clewiston, where strong demand prevails. Cooler weather has caused slight improvement in east coast demand. Supplies of feed molasses were adequate at most points.

Sales of 9,200,000 gallons of Cuban blackstrap were announced on February 27, 1953, by the Cuban Sugar Stabilization Institute. Sales were made at 9c. per gallon f.o.b. Cuba. This brings the total 1953 sales to 73,500,000 gallons.

Sodium Para-aminobenzoate—An error was made in the previous issue of OPD in reporting the recent price reduction made on this compound. The current price for sodium para-aminobenzoate is $2.40 per pound in 1,000-pound lots. Smaller quantities were listed from $2.45 to $2.50 per pound.

Sugar—The United States Department of Agriculture has released data for the week ended February 28, 1953, showing distribution of sugar by refiners, importers, beet and mainland cane processors for consumption in the continental United States as totaling 129,713 short tons, raw value, compared to 128,707 tons, same basis, distributed in the previous week and 138,956 tons during the corresponding week last year.

Total distribution during the entire month of February aggregated 574,789 short tons compared to 569,054 tons in the corresponding month in 1952.

Carbide-Run Lab Makes Nuclear Electric Power

The production of useful amounts of electric power by nuclear energy has been achieved from successful operation of a new type reactor—the experimental homogeneous reactor—at the Oak Ridge National Laboratory, Oak Ridge, Tenn., it has been announced by the Union Carbide & Carbon Corporation, New York, which operates the laboratory for the Atomic Energy Commission.

On February 24, scientists brought a pilot-model of the unique reactor system up to its full design power of 1,000 kilowatts of heat output. The reactor steam then was switched to a turbine-generator and about 150 kilowatts of electricity was produced. The homogeneous reactor at Oak Ridge, capable of producing both fissionable material and electric power, is the first to operate at a temperature and power high enough for production of steam to run a standard industrial turbine-generator. However, this reactor was not designed to produce economical electric power.

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USP Constitutionality Upheld By High Court of Wisconsin

The constitutionality of the United States Pharmacopeia has been upheld in a decision handed down by the Supreme Court of Wisconsin in a case instituted by the Wisconsin State Board of Pharmacy against Fayz Wakeen, a grocer, for selling aspirin, camphorated oil and milk of magnesia.

A county court conviction was appealed to the circuit court for dismissal of the complaint on the ground that the articles in question were exempt as proprietary medicines and that the statute is unconstitutional, one of the reasons being that it is an unlawful delegation of legislative authority to a private organization located outside of the state, in this instance, the United States Pharmacopoeial Convention.

While the judge of the circuit court ruled that the drugs in question are not proprietaries, he ruled that a portion of the statute defining the term "drugs" is unconstitutional because of its unlawful delegation of legislative authority to the compilers of the USP and dismissed the complaint and warrant.

The state then appealed the case to the Wisconsin supreme court and was joined by the USP Convention, through its board of trustees, who submitted a brief as "amicus curiae" (friend of the court). In a decision handed down March 3, the supreme court upheld the lower court in ruling that the drugs in question are not proprietary medicines but found the statute not unconstitutional on the grounds that it was "not a case of the delegation of legislative powers." The court pointed out that the USP, as referred to in the Wisconsin statute, is "not published in response to any delegation of power, legislative or otherwise," adding that many of the USP volumes were published "before the enactment of our statute and for an entirely different purpose."

Magnus, Mabee & Reynard Fetes DSC at 13th Dinner

Magnus, Mabee & Reynard, Inc., New York, held its thirteenth annual reception and banquet for members and friends of the Druggists Supply Corporation March 7 at the Waldorf-Astoria hotel, New York. Over 500 guests heard Dr. Ivor Griffiths, president of the Philadelphia College of Pharmacy, pay tribute to the late Percy C. Magnus, sr., founder of MM&R and father of P. C. Magnus, president, J. B. Magnus and R. B. Magnus, vice-presidents of the firm.

The dinner, held simultaneously with the DSC convention in the same hotel, was attended by prominent wholesale druggists, drug and chemical manufacturers and honor guests from the business world. Marguerite Piazza, star of the Metropolitan Opera and NBC television, highlighted the entertainment program.

Carbobenzoxy Chloride Now Produced by Mann Research

Mann Research Laboratories, Inc., New York, has begun commercial production of carbobenzoxy chloride (benzyl chloroformate). The reagent is the standard starting material for the synthesis of peptide and peptide intermediates and is also used for blocking of amino or hydroxyl functions generally. Carbobenzoxy chloride is offered by Mann Research in a minimum purity of 99 percent and is shipped in one hundred, 250, 500 and 1,000 gram containers.

Squibb Creates New Post

George S. Squibb has been appointed to the newly-created post of director of domestic administrative operations, E. R. Squibb & Sons, division of Mathieson Chemical Corporation, New York. A great-grandson of the founder, Mr. Squibb was formerly assistant to the president and secretary of E. R. Squibb & Sons.

Heyden Elects Lindsay

James K. Lindsay has been elected secretary of the Heyden Chemical Corporation, New York, to take the place of Paul van der Stricht, who has resigned. Mr. Lindsay was previously a partner in the law firm of Fulton, Walter & Halley, New York.

Central Scientific Co. Acquires Rights to New Testing Instrument

John T. Gossett, chairman of the Cenco Corporation, Chicago, has announced that its wholly owned subsidiary, the Central Scientific Company, has acquired the exclusive manufacturing and sales rights, under an agreement with the Standard Oil Company (Indiana), for a device employing a direct by-product of the atomic energy reactors. "The radically new scientific instrument will provide a new technique for testing the specific properties of refined liquid petroleum products." Mr. Gossett said, "and is expected to have wide application in various industries." Complete details will be announced at a later date, he said.

Trade Briefs

S. H. Gould, vice-president of the American Pharmaceutical Company, is leaving April 30 for a business trip to Europe.

White Laboratories, Inc., has commissioned Edmond Fitzgerald to paint a mural symbolizing the company's contributions to medicine.

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Research, Development Labs Expansion Goal Announced

A defense expansion goal for scientific research and development laboratories was announced last week by the Office of Defense Mobilization. The goal provides for the expansion of specified types of research and development laboratories provided the construction and facilities are completed by January 1, 1956.

Ralph S. Trigg, Acting Assistant Director for Production, said that this expansion goal will apply only to those research and development facilities which the sponsoring government agencies determine are necessary to meet defense research requirements that otherwise could not be met. Only those laboratories which have defense research and development contracts are eligible for rapid tax amortization under the goal. Mr. Trigg emphasized that the expansion does not include control laboratories necessary for the operation of a plant which has received, or could properly be granted, a certificate of necessity for rapid tax amortization. In cases of this kind, he said, where laboratory facilities are an integral part of the production process, they will be treated as part of the industrial plant's expansion under the appropriate expansion goal.

Flaxseed, Linseed Oil Exports Off Last Year

The United States exported 1,858,415 bushels of flaxseed and 9,481 short tons of linseed oil in 1952, according to the Department of Agriculture. This is a total in flaxseed equivalent of 2,854,300 bushels and represents almost 1,800,000 bushels or roughly 40 percent less than the volume exported in 1951. Seed exports were the smallest since 1948 while oil exports were, with the exception of 1950, the largest since 1948. Over 98 percent of the seed and 70 percent of the oil we... to Europe.

Belgium-Luxembourg again, as in 1951, was the leading market for United States flaxseed, taking 45 percent of the total. The United Kingdom and the Netherlands purchased 27 and 25 percent, respectively, of the total.

About 70 percent of the linseed oil exports went to the Netherlands in 1952. Germany, the largest purchaser of oil in 1951, was not in the market for United States oil in 1952.

Perfumers Meet Wednesday

The next regular monthly dinner-meeting of The American Society of Perfumers will be held at the Advertising Club, New York, on Wednesday at 6 p.m. Dr. Dean Foster of the United States Testing Company, Hoboken, N. J., will speak on "Quality Testing of Single and Mixed Odorants and Odors."

Chicago Perfumery Association Stag Party Planned for Thurs.

The Chicago Perfumery, Soap and Extract Association will hold its annual stag party in the Morrison hotel, Chicago, Thursday. William D. Ackley is chairman, assisted by George W. Liddell.

Lilly Aids Cancer Research

The Institute for Cancer Research, Philadelphia, has received a grant from Eli Lilly & Co., Indianapolis, Ind., which will support Dr. Irene C. Diller in studies in the cancer field.

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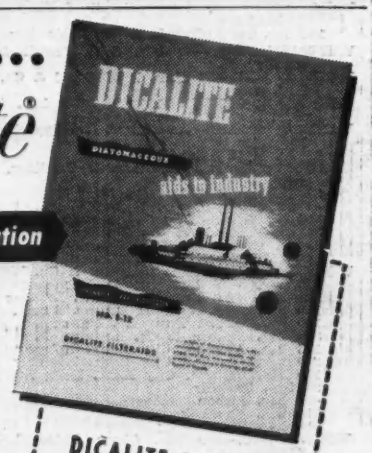

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■ Typical reactions of CYANOACETAMIDE

REDUCTION

$CNCH_2CONH_2 + 2H_2 \xrightarrow{\text{catalyst}} NH_2CH_2CH_2CONH_2$
amide of β-alanine

DEHYDRATION

$CNCH_2CONH_2 \xrightarrow{\text{catalyst}} CNCH_2CN + H_2O$
malononitrile

CONDENSATIONS

$2CNCH_2CONH_2 + RR'C{=}O \xrightarrow{\text{catalyst}} RR'CCH(CN)CONHC(=NH)CHCONH_2 + H_2O$
ketone or aldehyde → substituted piperidine

$CNCH_2CONH_2 + RCOCR'HCOR'' \xrightarrow{\text{catalyst}} RC{=}C(CN)CONHCR''{=}CR' + 2H_2O$
diketone → substituted pyridone

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30 blks, Lisbon
30 bgs, Ciudad Trujillo
75 bgs, Santiago

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10 cs, Fallek Products Co, Bangkok
4 cs, Bangkok

BLUEFINLIVER OIL—3 dms, Transocean Commerce Inc, Yokohama

BONEMEAL—2,225 bgs, Transatlantic Animal By-Products Corp, Alexandria

BUTTONLAC—100 bgs, Suhr & Bundelman, Calcutta

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40 cs, Hugo Corp, Yokohama
162 cs, Antwerp

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96,176 bbls, Mexican Petroleum Corp, Aruba
100,600 bbls, Asiatic Petroleum Corp, Curacao
100,370 bbls, Hess Inc, Punta Cardon
97,910 bbls, Remington Oil Co, Punta Cardon
99,163 bbls, Remington Oil Co, Curacao
249,919 bbls, Paragon Oil Co, Tampico
96,040 bbls, Pontiac Caribbean Oil Co, Tampico
109,208 bbls, Hess Inc, Curacao
241,519 bbls, Esso Standard Oil Co, Aruba
104,078 bbls, Esso Standard Oil Co, Amuay Bay
287,173 bbls, Esso Export Corp, Aruba

GALL—10 dms, F J Benkhart, Vera Cruz
OX—2 dms, J M Rogers Co, Dublin
13 dms, International Packers Ltd, Dublin

GHATTI GUM—114 bgs, S B Penick & Co, Bombay

GINGER ROOT—56 bgs, Landes & Balint, Kingston
31 bgs, C T Wilson, Kingston

GLUE—306 bgs, Transatlantic Animal By Products Corp, Rotterdam
350 bgs, Liverpool

GLYCERIN—51 dms, C J Schellings & Co, Marseilles
400 dms, Dominion Products Co, Cochin
1,165 dms, Otto Gerdau, Bombay
36 bbls, C J Schellings & Co, Marseilles
96 dms, C J Schellings & Co, Dunkirk
110 dms, Lever Bros, Port of Spain
151 dms, R P Casado, Havana

GYPSUM—715 bgs, Whittaker Clark & Daniels, Liverpool
9,808 tons, U S Gypsum Co, Hantsport

HEXAMETHYLENETETRAMINE — 50 bbls, R W Greef & Co, Antwerp

IODINE, CRUDE—46 kgs, Marsman Commercial Co, Yokohama
170 kgs, International Fertilizer & Chemical Corp, Yokohama

IRON BLUE—40 dms, Van Oppen & Co, Manchester
OXIDE, RED—5 dms, Cosmos Shipping Co, Puerto Cortes

JUNIPER BERRIES—84 bgs, Leghorn

KARAYA GUM—123 bgs, Colony Import & Export Corp, Bombay
497 bgs, Stein Hall & Co, Bombay
307 bgs, Jacques Wolf & Co, Bombay
61 bgs, S B Penick & Co, Bombay
36 bgs, Tragacanth importing Co, Bombay
124 bgs, East Asiatic Co, Bombay

KELPMEAL—100 bgs, F H Fromm Co, Dublin
27 bgs, Meer Corp, Rotterdam

LAUREL LEAVES—290 bls, Commercial Credit Bank, Piraeus

LEMONGRASS OIL—5 dms, Givaudan Corp, Puerto Barrios
18 dms, Orbis Products Corp, Cochin
10 dms, Lo Curto & Funk, Puerto Barrios

LIME OIL—68 cs, Polaks Frutal Works, Port of Spain
30 cs, Dodge & Olcott, Port of Spain
2 dms, A Delemont, Port Au Prince

LOCUSTBEAN GUM—320 bgs, Stein Hall & Co, Portimao
1,356 bgs, J L Quesada, Valencia
600 bgs, Morningstar, Nicol, Liverpool

MAGNESIA CARBONATE—50 cs, National City Bank, Liverpool

MAGNESIUM SULPHATE—551 bgs, Nevi Trading Corp, Bremen

MARJORAM LEAVES—88 bls, Louis Furth, Marseille
40 bls, A T Sherman, Marseille

MASTIC GUM—10 cs, Lo Curto & Funk, Piraeus

MENTHOL—15 dms, T Seltzer, Marseille
15 cs, Lo Curto & Funk, Yokohama

MILK SUGAR—101 dms, Frank Samuel & Co, Rotterdam
1,000 kgs, Liverpool

MONOSODIUM GLUTAMATE—300 dms, Universal Sales Co, Yokohama

MUSTARD OIL—14 cs, Lo Curto & Funk, Hamburg
1 cs, Florasynth Lab, Rotterdam
SEED—600 bgs, Brindisi

MYRTLE LEAVES—11 bgs, S B Penick & Co, Genoa

NAPHTHALENE—800 bgs, Interocean Chemical & Minerals Corp, Liverpool

NAPHTHOL—215 dms, Hensel Bruckmann & Lorbacher, Rotterdam
20 dms, C A Haynes, Rotterdam
20 dms, Kaufmann & Vinson, Rotterdam

NICKEL CHLORIDE—42 kgs, Barrett Transport, Bremen
12 cks, Freedman & Slater, Bremen
SULPHATE—100 dms, Hamburg

NIGER SEED—200 bgs, Wagner Bros, Bombay

OAK EXTRACT—20 bgs, International Expediters, Rijeka

OLIVE OIL—100 dms, Old Monk Olive Oil Co, Marseille
30 dms, S A Lareja & Son, Marseille
50 bbls, J Weber, Marseille
50 dms, National Shawmut Bank Boston, Malaga

ORRIS ROOT—86 bgs, Meer Corp, Leghorn

OURICURY WAX—1,430 bgs, Bankers Trust Co, Salvador
504 bgs, D Levin, Salvador
448 bgs, D Levin, Bahia
580 bgs, Poons Co, Bahia

PAPAIN—63 hf chts, Colombo
23 pkgs, Colombo

PAPAYA LEAVES—16 bgs, S B Penick & Co, Bombay

PAPRIKA—50 bgs, P H Petry, Alicante
85 bgs, A A Sayia, Alicante
1,180 bgs, J Weinstein, Alicante
100 bgs, Joensson & Cross, Rijeka
1,515 bgs, Alicante

PEARL ESSENCE—2 cs, Northern Warren Corp, Rotterdam

PEATMOSS—2,875 bls, J E Bernard, Bremen
125 blks, J E Bernard, Bremen
400 bdls, J E Bernard, Bremen
350 bls, National Distributors, Bremen
3,650 bls, Premier Peatmoss Corp, Bremen
3,750 bls, New Amsterdam Import Co, Bremen
500 bls, Gelico Inc, Bremen

PEPPER, BLACK—120 bgs, A G Dunn, Cochin
240 bgs, Joensson & Cross, Cochin
120 bgs, A C Israel, Cochin
160 bgs, Internatio Rotterdam, Cochin
50 bgs, Otto Gerdau, Cochin
80 bgs, Mincing Trading Corp, Cochin
48 bgs, A G Dunn, Bombay
40 bgs, Joensson & Cross, Bombay
13 bgs, Joensson & Cross, Rotterdam

PETROLEUM, CRUDE—200,000 bbls, Esso Standard Oil Co, Puerto La Cruz
175,647 bbls, Esso Standard Oil Co, Cartagena
240,000 bbls, Socony Vacuum Oil Co, Puerto La Cruz

PHTHALIC ANHYDRIDE—2,000 bgs, B F Goodrich & Co, Kobe

PHTHALOCYANINE—16 dms, Anders Chemical Co, Rotterdam

PIMENTO BERRIES—100 bgs, A G Dunn, Kingston
250 bgs, C T Wilson, Kingston

LEAF OIL—1 dm, Fritzsche Bros, Kingston

POLLACKLIVER OIL—50 dms, Chas L Huisking & Co, Yokohama
30 dms, Transocean Commerce Inc, Yokohama
50 dms, Arista Oil Products Co, Yokohama
50 dms, Wilbur Ellis Co, Yokohama
175 dms, H A Gogarty, Yokohama

POLYSTYRENE—5 dms, Union Carbide & Carbon Corp, Leixoes

POPPY SEED—100 bgs, R J Spitz, Rotterdam
100 bgs, Levy & Levis Co, Rotterdam
400 bgs, Louis Furth, Rotterdam
150 bgs, C M Van Sillevoldt, Rotterdam

POTASSIUM CARBONATE — 1,025 bbls, Oil & Chemical International Corp, Hamburg

CYANIDE—100 dms, Lang & Marshall Co, Rotterdam
267 dms, Liverpool

METABISULPHITE—44 bbls, Spring Chemical Inc, Havre

PERCHLORATE—25 bbls, Chilean Nitrate Sales Corp, Antofagasta

PSYLLIUM SEED—1,014 bgs, T M Duche & Sons, Bombay
120 bgs, Prentiss Drug & Chemical Co, Bombay

QUEBRACHO EXTRACT—1,534 bgs, River Plate Corp, Buenos Aires
1,065 bgs, Buenos Aires

QUICKSILVER—250 flks, Lo Curto & Funk, Leghorn
75 btls, Mercantile Metal & Ore Corp, Rijeka
500 flks, Chemical Bank, Leghorn
134 flks, Lo Curto & Funk, Tampico

QUINIDINE SULPHATE—3 cs, Chas L Huisking & Co, Hamburg

QUININE SULPHATE—6 cs, River Plate Corp, Kobe

RAPE SEED—150 bgs, E F Mangelsdorf & Bro, Rotterdam

RESIN, SYNTHETIC—45 bgs, F L Kraemer, Liverpool
87 bls, F L Kraemer, Liverpool

RHUBARB ROOT—76 bgs, S B Penick & Co, Bombay

SAFFRON FLOWERS—24 bgs, Vera Cruz

SAGE LEAVES—200 bls, Bank of America, Split
125 bls, Superintendence Co, Split

SAGO FLOUR—554 bgs, Stein Hall & Co, Singapore

SANDALWOOD—100 bgs, George Lueders & Co, Bombay

SAPONIN—19 cs, W R Grace & Co, Valparaiso

SASSAFRAS OIL—100 dms, Magnus, Mabee & Reynard, Kobe

SCHEELITE ORE—225 bgs, Penson & Co, Leixoes

SEEDLAC—600 bgs, Wm Zinsser & Co, Calcutta
200 bgs, Colony Import & Export Corp, Calcutta
150 bgs, Schwab Bros, Calcutta
400 bgs, Ralli Bros, Calcutta
100 bgs, Suhr & Bundelman, Calcutta
950 bgs, Mantrose Corp, Calcutta
1,150 bgs, Gillespie-Rogers-Pyatt, Calcutta
200 bgs, Brown Bros, Calcutta
190 bgs, Capital Shellac Corp, Bangkok
450 bgs, H C Smith, Calcutta
200 bgs, Haeuser Shellac Co, Calcutta
178 bgs, Bangkok

SERPENTARIA ROOT—17 bgs, S B Penick & Co, Bombay

SHARKLIVER OIL—30 dms, National City Bank, Yokohama
50 dms, Wilbur Ellis Co, Yokohama
30 dms, Bankers Trust Co, Yokohama
7 dms, Arista Oil Products Co, Yokohama
50 dms, Interocean Chemical & Mineral Corp, Yokohama
200 dms, Consumers Import Co, Yokohama
100 dms, Silmo Chemical Corp, Yokohama
5 dms, H A Gogarty, Yokohama

SHELLAC—50 bgs, Haeuser Shellac Co, Calcutta
100 bgs, Dings & Schuster, Calcutta
250 bgs, Wm Zinsser & Co, Calcutta
50 bgs, Colony Import & Export Corp, Calcutta
70 bgs, J H Schroeder, Bangkok
14 bgs, F H Paul & Stein Bros, Hamburg
100 bgs, Gillespie-Rogers-Pyatt, Calcutta
100 bgs, Mac-Lac Co, Calcutta
100 bgs, Schwab Bros, Calcutta
250 bgs, Mantrose Corp, Calcutta

SODIUM ARSENATE—71 dms, Harry Dixon & Sons, Glasgow
BENZOATE—20 cks, George Uhe Co, Rotterdam
BICARBONATE—795 bgs, Chemical Manufacturing Co, Liverpool
PARA-AMINOSALICYLATE — 20 dms, Rhodia, Havre
10 dms, Emkay Co, Rotterdam
PERBORATE TETRAHYDRATE—600 dms, Chemical Mfg Co, Liverpool
PRUSSIATE—276 bgs, Rohner Gehrig, Antwerp

SOLELIVER OIL—5 dms, Consumers Import Co, Yokohama

STARCH—250 bgs, Bank of Manhattan Co, Rotterdam
2,800 bgs, Haberland Manufacturing Co, Rotterdam

TALC—2,550 bgs, Charles Mathieu, Genoa

TANKAGE—191 bgs, Rio Grande

TAPIOCA FLOUR—400 bgs, H R Dolan Jr, Bangkok
300 bgs, Sino Java Inc, Bangkok
262 bgs, First National Boston, Bangkok

TRAGACANTH GUM—86 bgs, Tragacanth Importing Co, Khorramshahr

UREA—1,000 bgs, International Selling Corp, Gothenburg
273 bgs, Terra Chemicals Inc, Rotterdam

VALERIAN ROOT—40 bgs, S B Penick & Co, Bombay

VALERIC ACID—18 djms, R W Greff & Co, Rotterdam

VANADIUM CONCENTRATES—1,600 bgs, Vanadium Corp of America, Callao

VANILLA BEANS—220 cs, R L Oppenheimer, Marseille
15 cs, P H Petry, Marseille
25 cs, Schmidt, Dammann & Smeltzer, Marseille
22 cs, Zink & Triest Co, Marseille
44 cs, J Manheimer, Marseille
125 cs, George Uhe Co, Marseille
34 cs, F Huber & Co, Tangier
50 cs, Camax Co, Guadeloupe
38 cs, J Manheimer, Guadeloupe

WOLFRAM ORE—100 bgs, Derby & Co, Lisbon
230 bgs, J W Hampton Jr, Bordeaux
100 bgs, First National Boston, Leixoes
135 bgs, First National Boston, Lisbon
170 bgs, Girard Trust Co, Lisbon
815 bgs, Penson & Co, Leixoes
178 bgs, National City Bank, Leixoes
230 bgs, National City Bank, Bangkok
180 bgs, National City Bank, Hong Kong
99 bgs, Tangier
400 bgs, Lisbon
310 bgs, Bangkok
120 bgs, Hong Kong

WOLFRAMITE—200 bgs, Chase National Bank, Lisbon
335 bgs, Metal Transport Corp, Rotterdam

WOOL GREASE—76 dms, Public National Bank, Liverpool
31 dms, National Bank & Trust Co, Liverpool
52 dms, Gallard Schlesinger, Genoa
48 dms, J J Gavin, Nagoya
150 dms, N I Malmstrom, Manchester

ZINC CHLORIDE—40 dms, Antwerp
CYANIDE—70 dms, Liverpool

Baltimore

BONE—2,269 bgs, E J Lang, Tripoli
IRON OXIDE—1,471 bgs, Malaga

PEATMOSS—675 bls, S Shapiro, Bremen
75 blks, S Shapiro, Bremen
75 bdls, S Shapiro, Bremen
325 bls, E J Lang, Bremen
1,440 bls, New Amsterdam Import Co, Bremen

Boston

GELATIN—336 bgs, Nicholson & Co, Manchester

GLUE—600 bgs, D C Andrews, Liverpool

NAPHTHALENE—1,180 bgs, T D Downing, Liverpool

SODIUM CYANIDE—140 dms, Bank of Athens Liverpool

Los Angeles

AGAR—15 bls, Moorhead Co, Yokohama

AMMONIUM NITRATE — 1 bg, 1 pkg, Wilson and Geo Meyer & Co, Heroya

CALCIUM NITRATE—3,900 bgs, Wilson and Geo Meyer & Co, Oslo

CINNAMON QUILLS—50 bls, East India Trading Co, Colombo

COPRA—300 long tons, Vegetable Oil Products Co Cebu
500 long tons, Copra Oil & Meal Co, Cebu
250 long tons, Copra Oil & Meal Co Ltd Tabaco
400 long tons, Vegetable Oil Products Co Inc Legaspi
100 long tons, Procter & Gamble Co, Zamboanaga
400 long tons, Cebu

CAKE—600 bgs, Adkins Kroll & Co, Cartagena
6,720 bgs, Wilbur Ellis Co, Manila
6,720 bgs, Balfour Guthrie & Co, Manila
6,718 bgs, Procter & Gamble Co, Manila
2,240 bgs, Manila

MEAL—2,240 bgs, Balfour Guthrie & Co, Iloilo

MOLASSES—10,459 tons, Southwestern Sugar & Molasses Co, Kaohsiung

MONOSODIUM GLUTAMATE—200 cs, Universal Sales Co, Yokohama

PEPPER, BLACK—31 bgs, Internatio Rotterdam Nasipit
10 bgs, Antonio Yep, Singapore

PETROLEUM, CRUDE—134,293 bbls, Texas Co Sungai Pakning

POLLACKLIVER OIL—150 dms, Van Camp Sea Food Co, Yokohama

POPPYSEED—50 bgs, Antwerp

SHARKLIVER OIL—50 dms, Van Camp Sea Food Co, Yokohama

TAPIOCA—26 bgs, Djakarta

UREA—7,306 bgs, Antwerp
14,540 bgs, Wilson and Geo Meyer & Co, Oslo

Norfolk

LEATHER MEAL — 2,695 bgs, Weaver Tankage Corp, Manchester

PEATMOSS—1,760 bls, W M Stone & Co, Bremen
356 blks, W M Stone & Co, Bremen
30 bdls, W M Stone & Co, Bremen
300 bls, Premier Peatmoss Corp, Bremen

SODIUM BICARBONATE — 1,992 bgs, Chemical Manufacturing Co, Liverpool

Philadelphia

ANTIMONY ORE—2,400 bgs, Antofagasta

BERYL ORE—800 bgs, Lisbon

CARAWAY SEED—200 bgs, Quaker Products, Rotterdam

CASEIN—500 bgs, Fidelity Trading Co, Buenos Aires

CASTOR OIL—234 tons, Rohm & Haas, Bombay
395 tons, Recife

EPSOM SALT — 400 bgs, International Chemical Corp, Bremen

FLUORSPAR—543 tons, Corn Exchange Bank, La Goulette
3,000 tons, Caligary

FUEL OIL—77,803 bbls, Paragon Oil Co, Curacao
112,000 bbls, Esso Standard Oil Co, Aruba

GLYCERIN—55 dms, Harshaw Chemical Co, Dublin

GRAPHITE—200 bgs, C Pettinosa, Colombo

GYPSUM—5,838 tons, U S Gypsum Co, Hantsport

INFUSORIAL EARTH — 3,281 bgs, Pomeroy & Fischer, Tampico

LICORICE ROOT—7,734 bls, Guaranty Trust Co Antwerp

MAGNESITE—4,937 bgs, First National Cincinnati Split

MAGNESIUM SILICOFLUORIDE—60 bgs, H Sundheimer, Hamburg

MANGANESE ORE—600 tons, Lavino Shipping Co Coquimbo

MOLASSES—1,005,338 gals, Tarafa
406,962 gals, Manati
323,730 gals, Santiago

OLIVE OIL—14 dms, Chase National Bank, Seville

PEATMOSS—1,000 bls, E J Lang, Bremen
800 bls, Bank of Manhattan Co, Bremen
2,000 bls, Halfmoon Manufacturing Corp, Rotterdam
2,509 bls, E Dunwoody & Co, Bremen
3,025 bls, Keer Mauer, Bremen
1,000 bls, Bank of Manhattan Co, Hamburg
400 bls, Franex Corp, Bremen
500 bls, Hamburg

PETROLEUM, CRUDE — 115,426 bbls, Socony Vacuum Oil Co, Covenas
345,834 bbls, Socony Vacuum Oil Co, Mena Al Ahmadi
229,930 bbls, Gulf Oil Corp, Las Piedras
173,600 bbls, Gulf Oil Corp, Puerto La Cruz
126,503 bbls, Texas Co, Sidan
100,000 bbls, Texas Co, Puerto La Cruz

QUEBRACHO EXTRACT—1,044 bgs, Tanimex Corp Buenos Aires
1,533 bgs, Buenos Aires

RAPE SEED—500 bgs, R T French Co, Rotterdam
1,000 bgs, American Seed Co, Rotterdam

SODIUM NITRATE—3,000 tons, Guaranty Trust Co, Tocopilla

VANILLA BEANS—14 cs, Marseille

WHITING—600 bgs, Pleuss Staufer, Antwerp

San Francisco

AGAR—4 bls, Berelson Inc, Kobe

AMMONIUM CHLORIDE—1,000 bgs, C M C Chemicals, Manchester

ANISE SEED—25 bgs, Bank of California, Antwerp

CALCIUM CHLORIDE—1,588 bgs, C M C Chemicals Manchester

CARDAMOM—15 cs, H M Newhall & Co, Bombay

CASEIN—272 bgs, N Y Trust Co, Buenos Aires
400 bgs, Borden Co, Buenos Aires

CASSIA—275 bls, S L Jones & Co, Hong Kong

CHILLIES—40 bgs, D Hecht & Co, Kobe

CINNAMON QUILLS—50 bls, W R Grace & Co Colombo

COPAL GUM—140 bgs, H W Peabody & Co, Manila

COPRA—500 tons, El Dorado Oil Works, Iliolo
CAKE—2,200 bgs, Balfour Guthrie, Cebu

FISHLIVER OIL—180 cs, M S Cowen, Yokohama

LINSEEDMEAL—51 tons, Balfour Guthrie, Kobe
46 tons, Balfour Guthrie, Yokohama
606 bgs, Balfour Guthrie, Yokohama

PEPPER, BLACK—160 bgs, Mincing Trading Corp Cochin
400 bgs, Alleppey
WHITE—32 bgs, H C Ireland, Djakarta

PHTHALIC ANHYDRIDE—908 bgs, Pacific Coast Chemical Co, Kobe

SEEDLAC—210 bgs, East Asiatic Co, Bangkok

SESAME SEED—181 tons, Pacific Vegetable Oil Corp, Corinto

Obituaries

Elmer C. Henlein

Elmer C. Henlein, president and general manager of the Dow Drug Company, Cincinnati, Ohio, died March 8 in Cincinnati. He was fifty-nine years old.

Mr. Henlein had been with the company since 1945 and served as executive vice-president and general manager until promoted to the presidency in 1947. He was Cincinnati district manager of the War Production Board from 1942 to 1945.

John A. Murphy

John A. Murphy, director of technical serivce for the eastern division of Naftone, Inc., New York, died March 7 in Hillside, N. J. He was fifty-three years old.

Mr. Murphy began his career with the Devoe & Reynolds Company in Newark, N. J. In 1927 he was made superintendent of that company's varnish department at Chicago. In 1930 he became superintendent of the varnish department of the Standard Varnish Works, Staten Island, N. Y., and was subsequently made plant superintendent. In 1943 he joined the Brooklyn Varnish Manufacturing Company, Brooklyn, N. Y.

Morris Sayre

Morris Sayre, president of the Corn Industries Research Foundation, Inc; honorary board chairman and former president of the Corn Products Refining Company, New York, and head of the Mutual Security Agency's evaluation team for Turkey, died March 7 in Zonguldak, Turkey. He was sixty-nine years old.

Dr. William W. Skinner

Dr. William W. Skinner, former chief of the Bureau of Agricultural and Industrial Chemistry, died March 10 in Sandy Spring, Md. He was seventy-eight years old.

Edward S. Bassett, former president and board chairman of the Cowles Chemical Company, Cleveland, Ohio, died March 9 in Cleveland Heights. He was eighty-three years old.

George E. Griffin, technical sales representative for the Harwick Standard Chemical Company, Akron, Ohio, died February 6 in Fort Lauderdale, Fla. He was fifty-four years old.

Edwin B. Hart, a prime mover in the discovery of vitamin A and the understanding of the work of the B vitamin group, died March 12 in Madison, Wisc. He was seventy-eight years old.

Raymond J. Lakey, vice-president and chief engineer of the Shea Chemical Corporation, Columbia, Tenn., died February 26 in an automobile accident near Franklin, Tenn. He was thirty-four years old.

Harold Marcus, president of the Halsey Drug Company, Brooklyn, N. Y., died last week in that city. He was forty-two years old.

Dr. James W. McBain, professor emeritus of chemistry at Stanford University, died March 12 in Palo Alto, Calif. He was seventy years old. He was particularly known for his work in colloid chemistry.

Milton M. Weist, manager for the Air Reduction Sales Company in Minneapolis, Minn., died March 6 in Palm Beach, Fla. He was fifty-five years old.

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*Chen, G.; Ensor, C. R., and Portman, R.: J. Pharmacol. & Exper. Therap. *106*:376, 1952.
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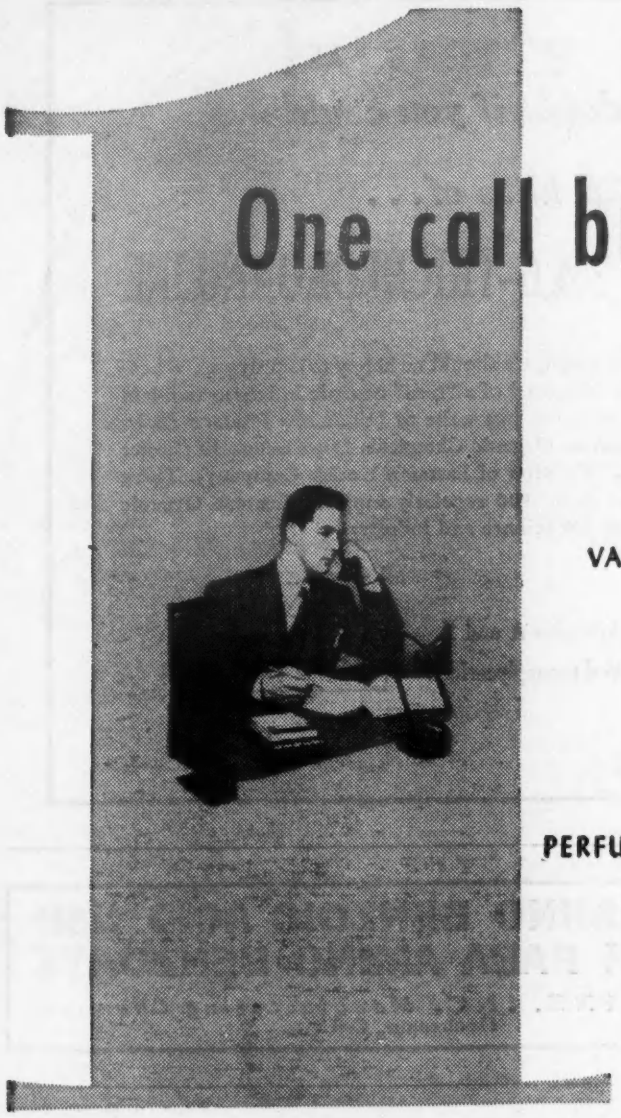

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Botanical Drugs, Spices, Gums

Price activity lessened in the botanical market last week. Most of it came in condimental items but considerable strength at rising prices was noted in corn silk, Canadian fir balsam, Peru balsam, and witch hazel leaves within the group of drug items. Lobelia herb continued to soften and so did the prices on copaiba balsam. Black pepper was a strong, rising article much of the week. White pepper was also advanced. Mexican pimento continued to display the effect of the new export tax at the source. Grains of paradise was again available on spot. Limited demand and more stock brought Zanzibar clove down. Price changes weighed more on the up side than down and the market index rose 0.61 point to 107.49, a new high for this year to date.

Demand was generally moderate for most botanicals last week. Speculative articles such as pepper, clove, and cassias, had a fair amount of sales activities but most of the drug articles and many of the condimental entities were bought only in quantities sufficient to cover immediate requirements.

Scarcity of Oregon fir balsam was wide spread and only odd lots can be obtained between now and another crop. Lobelia leaves were also extremely scarce and there was still growing scarcity of witch hazel. Ipecac root continued in strong position and lacked signs of an early change in that aspect of the market. The range in papain prices remained wide, differing in most instances with variations in potency. Africa continued to make few offerings and recent arrivals of papain originated mostly in Ceylon.

Balsams

Copaiba—Competition became more active and it led to prices being shaded to the basis of 85c. and $1.75 per pound, quoted according to seller, quality and quantity.

Fir—A slightly tighter situation ruled in Canadian balsam and at the end of last week quotations were higher and a deal firmer at $32 and $33 per gallon. Most suppliers of Oregon balsam lacked supplies but odd lots were held around $3.25 to $3.30 per gallon.

Peru—Shipment cables came in higher and spot quotations reflected the stronger situation at the origin by rising to the firm position of $1.40 to $2 per pound, as to seller.

Barks

Cascara Sagrada—Some are asking a minimum of 37c. per pound, reflecting the shrinkage of stocks and the general firming of sellers' price odeas. The range was 35c. to 37c. Development of the true situation in bark other than that from two to three years old must await the first and subsequent offerings of new crop peel in a rot too distant future.

White Pine—Care against verstocking because of the high prices prevailing among the gatherers tends to make the fag end of the consuming season one of more than the usual amount of price strength. All consumption needs have been met but the fact that demand will be small from now on has no effect on sellers' disposition tc maintain quotations at current levels.

Beans

Vanilla—Sellers reported very steady prices and a sufficient volume of jobbing demand to eliminate any tendency to shade the market as currently quoted. Every sign at this time points to the idea that source markets will not market beans cheaply when new crops are proposed to this and other markets. A certain degree of reserve exists among spot suppliers as they await further developments at home and abroad.

Flowers

Arnica—Limited to moderate stocks were held at very steady prices in a market where opportunity for price competition was virtually non-existant because the first cost of goods in hand provide little margin for price shading. A rather steady flow of jobbing orders made the bulk of trade.

Rose—No one seems able to return this item to the basis of firm quoting on spot goods. Considerable difficulty in getting replacement supplies to the spot was still being reported last week and, hence, the spot ideas on price were purely nominal in most quarters.

Gums

Arabic—Shipment prices differed from those a week ago only to a small, fractional extent and the general situation seemed to have arrived at a fair degree of price stability at the origin. It was also thought that there is not much likelihood that replacement costs will become more favorable at any early date. Numerous countries other than the United States have placed substantial business at the source and that has acted in the direction of well maintained shipment quotations.

Benzoin—The late price advancce on spot to the basis of 38c. to 42c. per pound was reported well sustained by the trade last week. When top qualities of gum were a requirement, no tendency existed to accept buyers' bids and where any shading did take place, it was alleged to have been based on a lower quality of merchandise than the USP specifications.

Herbs and Leaves

Laurel—Yugo-Slavian leaves were higher at 10c. to 10½c. per pound but other varieties of laurel held about steady in price.

Lobelia—The apparently softer spot pricing of herb continued to be noted last week and some quotations as low as 38c. per pound developed. The range was to at least 40c. as to seller. Leaves were a scarce, almost unobtainable item and prices at 75c. to 76c. per pound were close to being nominal.

Sage—Cretan rubbed material was advanced to the basis of 11c. to 11½c. per pound but Syrian was shaded to 10½c. to 11½c. as to seller. Dalmation held steady for once, having ceased to decline when it reached 40c. to 41c. Other varieties were quiet at unchanged price positions.

Senna—Further declines in prices failed to develop and it seemed likely that the market from now on and for a considerable period of time might become quite steady. Much will depend on further developments in the primary markets.

Sweet Basil—Until a variety of other than French leaves becomes available, prices are apt to hang at the high point of $1.35 per pound. Some importers are seeking lower cost goods in Italy. No Californian leaves were available, here or at the origin and prices last paid were around $1.05.

Witch Hazel—With very little material to be carried over into the new collection season, those with stocks in hand have revalued them upward to the basis of 22c. to 24c. per pound regardless of the fact

Price Trends

Advanced

Drugs

Corn silk, 2c. per lb.
Fir balsam, Canada, $1 per gal.
Peru balsam, 10c. per lb.
Witch hazel leaves, 2c. per lb.

Other Articles

Anise, star, 10c. per lb.
Cassia, China, 3c. per lb.
Celery seed, French, 1½c. per lb.
Cinnamon, Ceylon No. 2, 2c. per lb.
"0000," 1c. per lb.
Laurel leaves, Yugo-Slavian, 1c. per lb.
Mace, Siauw No. 1, 3c. per lb.
West Indian, 1c. per lb.
Mustard seed, Montana yellow, ½c. per lb.
Niger seed, ½c. per lb.
Pepper, black*, spot, 5c. per lb.
white, 3c. per lb.
Pimento, Mexican, 3½c. per lb.
Sage, Cretan, ½c. per lb.

Reduced

Drugs

Copaiba balsam, 5c. per lb.
Lobelia herb, 2c. per lb.

Other Articles

Anise seed, Balkan, ½c. per lb.
Cassia, Batavia, broken, ½c. per lb.
medium, 2½c. per lb.
Clove, Zanzibar, 1c. per lb.
Grains of paradise, 1½c. per lb.
Sage, Syrian, 1c. per lb.
Turmeric root, Madras, ½c. per lb.

Comparative Price Indexes

(100=1949 average)

Last week	Prev. week	Last month	March 14, 1952
107.49	106.88†	106.70	117.81

* Obtained too late for index calculation.
† Revised.

(For Current Prices see page 9)

Imports Detained by FDA

Week Ended Mar. 6

New York

Cassia, 27 lots, 2,511 bags: filthy.
Chillies, 115 bags: filthy.
Cumin seed, 300 bags: filthy.
Coriander seed 10 lots, 1,432 bags: filthy.
Mace, 4 lots, 58 cases: filthy.
Pepper, black, 3 lots, 192 bags: moldy.
White, 1 bag: filthy.

Boston

Paprika, 25 bags: filthy.

For Late Market Developments, See Page 4

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that not much export demand is apt to develop between now and new crop offerings.

Miscellaneous

Corn Silk—Sellers reported business readily possible at the higher price of 14c. to 15c. per pound because of the absence of important competition on the spot where moderate stocks cannot be replaced at more favorable prices.

Grains of Paradise—The item has appeared once more in firm offering position on spot after having been strictly nominal for some weeks. Quotations returned on the basis of 32½c. per pound, a firm quotation during the past week.

Roots

Aconite—According to test and seller, the market was firm at 45c. to 90c. per pound, the range covering potencies ranging from minimum NF potency to highest potency. Demand was routine and mainly for limited but prompt needs.

Goldenseal—Absence of sustained interest in the article tended to keep quotations rather liquid, at least to the extent that the tendency to shade prices was fairly common when it came to sellers of untested root. A firmer situation appeared when a guarantee of NF minimums was required.

Ipecac—No further price risings were reported but the market had a firm to strong undertone on spot as the result of similar conditions prevailing in primary markets from which offerings have been limited of late.

Orris—Stocks were definitely short and demand for substantial quantities would find sellers reserved and disposed further to advance prices above their current levels.

Seeds

Anise—Seed from a Balkan origin was shaded to 12c. to 12¼c. per pound. Other varieties showed no change. A price of 77c. on star anise coming from sources on spot believed to cover goods at some interior point. A firm spot price was noted at 87c. to 95c.

Caraway—The market was steady but unchanged. Future price developments hinge on what happens when the Dutch undertake cultivation of a 1953 crop.

Celery—French seed brought the higher price of 36½c. per pound and the range touched 38c. as to seller. Indian seed held unchanged.

Niger—Quotations rose on slightly better demand and at the end of last week the market stood at 11¼c. to 11½c. per pound.

Poppy—Turkish seed was shaded to 12½c. to 13c. per pound. Dutch remained at 16c. to 16½c. Future price developments in the latter material may await Dutch cultivation this year.

Spices

Cassia—Saigon spice eased on increased stock. All medium was down to 54½c. per pound and broken spice was shaded to 51½c. The only other change came in broken China cassia which was higher at 38c. per pound in some quarters.

Cinnamon—Ceylon No. 2 was advanced to 30c. to 31c. per pound for spot goods, which was far below import cost last week. The "0000" grade was also higher at 29c. to 40c.

Clove—Increase in spot availability of Zanzibar spice brought more competition and price reduction to the basis of $1.57 to $1.58 per pound.

Gingers—The market held all of its recent accession of strength but price advances were lacking during the past week. However, quotations were definitely firm in all directions. Mexico is shipping "fresh" ginger to United States Pacific coast ports. A total of 14 tons has been moved via truck through El Paso, Tex.

Mace—Cheap prices on No. 1 Siauw disappeared and the market became lowest at $1.05 per pound. West Indian mace was higher at 86c. to 88c.

Pepper—Active spot demand put black pepper prices sharply higher during the past week and much business was done as high at $1.50 er pound during the mid-week period. Afloats also were higher at $1.50 per pound and much of the time last week $1.50 prevailed for all nearby and distant forward positions. Some factors said that there was no shortage of spot or afloat but a delicate balance did exist between goods available and buyers' demands. White pepper was raised to $1.55 per pound and forwards were not offered very often.

Friday quotations on black pepper were as follows:—Spot, $1.45 to $1.47 per pound; afloat, $1.45 to $1.46; March shipment, $1.45; April shipment, $1.45; May shipment, $1.45.

Pimento—Prices on Mexican spice continued to rise, the stronger and higher market developing as the result of the new export tax in Mexico and the rise in sales to other countries than the United States being effective factors in the advance.

Northern Rhodesia Granted Loan for Rail Development

A loan of $14,000,000 has been made to Northern Rhodesia by the International Bank for Reconstruction and Development to aid in carrying out a three-year development program for improvement of railway system of both Northern and Southern Rhodesia.

The Rhodesias are important producers of metals and minerals, but shipments have been delayed because of a shortage of transportation facilities. For example, production of chrome ore has consistently been greater than rail capacity for moving it to seaports for overseas shipment. As a result, stockpiles of ore aggregating over 500,000 tons have been built up at railway sidings awaiting transportation, it was stated.

The bank also noted that Northern Rhodesia is a source of copper, asbestos, lead and zinc. Northern Rhodesia produces about an eighth of the free world's output of copper. Production in 1952 was well over 300,000 tons and, according to announced plans calling for the development of existing mines and the opening up of new ones, output may rise to more than 400,000 tons a year within the next five years, with further increases thereafter.

The copper ore in a number of the mines also contains cobalt. Northern Rhodesia produces a fifth of the world's output of this mineral.

Parke, Davis & Co. Makes Middleton Purchasing Agent

Parke, Davis & Company, Detroit, Mich., has announced the promotion of E. E. Middleton to purchasing agent. Mr. Middleton succeeds Stewart N. Jones, who retired March 1 after more than forty years with the firm.

In 1933, Mr. Middleton joined Parke, Davis in the pill and tablet department and nine months later was advanced to the time study division, a position he held for two years before being transferred to the purchasing department. He began as a clerk for the department in 1935 and rose through the ranks to become successively assistant buyer, buyer and assistant purchasing agent, before assuming his present position.

Scherer Elects Farnum, Fox to Vice-Presidencies

LeRoy R. Farnum, director of purchases and bulk chemical sales, and Dr. Sereck H. Fox, director of pharmaceutical research and control laboratories, have been elected vice-presidents of the R. P. Scherer Corporation, Detroit, Mich., Robert P. Scherer, president, has announced. They, with Dr. G. H. Carlson, director of the fine chemical division; E. W. Johnson, secretary-treasurer, and Karl Senff, director of sales, comprise the vice-presidential staff serving the corporation.

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Essential Oils, Other Aromatics

Trading in essential oils and aromatics was moderately good but not remarkable for the season. Some stimulus to the market resulted from Easter toiletries and perfumes ordering and although this phase was temporary, it provided a noticeable lift to the market. However, many consumers of essential oils continued to hold inventories as low as practicable and placed orders only for immediate requirements. Price controls were lifted on essential oils and aromatics. No immediate price increases were expected.

The upward trend in lemongrass oil prices caused an increase in quotations for alpha and methyl ionones. Other lemongrass oil derivatives also showed the effect of increased raw material costs, citral being one for which quotations have gradually edged forward. Although no advances were reported for lemongrass oil in the past week, prices maintained a firm tone. A report from India estimated that an unsold stock of 300 tons of oil remains on hand there, but that in view of the current midseason status of the crop and the higher price level, a considerable amount of oil would be held back from shipment. This week's price advances were offset by declines and the index fell off .13 point to reach 160.07.

Distilled orange oil prices were down sharply while expressed orange oil prices maintained the level of recent weeks. Considerable speculation was heard as to the effect that heavier buying on the part of the beverage industry would have on orange oil prices. Some firming was expected for this reason. Spanish lavender spike oil was slightly lower following a decline in shipping prices. With interest in this oil currently active, no widespread weakening of quotations was indicated. Lower production costs were cited as causing the current decline in prices for cetyl alcohol. Among the oils, coriander was decreased as it continued the trend of recent months.

Price Trends

Advanced

Ionone, alpha, 25c. per lb.
Beta, 35c. per lb.
Oil, lignaloe wood, Mexican, 20c. per lb.
Ocotea cymbarum, 2c. per lb.

Reduced

Alcohol, cetyl, NF, 5c. per lb.
Oil, coriander, USP, $2 per lb.
Lavender spike, Spanish, 10c. per lb.
Orange, sweet, distilled, 10c. per lb.
Phenylethyl acetate, 10c. per lb.

Comparative Price Indexes

(100=1949 average)

Last week	Prev. week	Last month	March 14, 1952
160.07	160.20	160.86	176.81

(For Current Prices see page 9)

Essential Oils

Anise—Some relief in the tight supply situation was noted after the arrival of a number of lots of Dutch oil. The market has felt an increasing shortage of oil ever since an embargo on material originating in Communist China went into effect. Almost all stocks have been depleted in the meantime resulting in a very large potential demand for material meeting USP specifications.

Bois de Rose—Prices held even during the past week, following an upward trend noted during the four week period preceding. There was a strong feeling among trade circles that further strength would be noted in prices soon if inquiry were maintained, as shippers in Brazil have been reported holding very firm views.

Cedarleaf—Prices for shipment were reported increased by trade sources, with spot prices as yet unaffected. Quotations ranged upward from $2.10 per pound, the lower quotations in the range representing offers of domestic oil. Most current inquiry could be filled without difficulty, it was reported, and no pinch in supply was expected.

Citronella—The large shipments of oil reaching the market, chiefly from Formosa, have kept the price level down and prevented any extensive firming. The outlook for the immediate future is toward a continuation of the present price trend, according to informed sources. Java type oil was offered from 45c. per pound and an offer at 50c. to 55c., depending upon quantity, was the lowest for Ceylon.

Clove—A firm price structure was maintained in the face of very short supplies of oil and little possibility of obtaining more ample replacement in the immediate future. With the cost of buds high, distillation of the oil could not be accomplished at prices lower than those currently prevailing, trade sources stated. Current quotations range upward from $9.50. A report on the Madagascar crop stated that distillation of leaf oil was accomplished last year with little care for the trees, causing very great damage. It was reported that branches and even the wood was distilled, a practice that the Department of Agriculture on the island has taken steps to prevent in the future.

Coriander—A price drop of $2 per pound was effected during the week as the source offering the oil previously at $20 reduced their quotation. The current reduction was the largest to be noted on the market in the gradual decline in coriander oil prices. Offered at a minimum price of $25 at the beginning of 1952, the prevailing quotations have weakened steadily since then.

Costus—Demand for this oil remained limited and most sales were restricted to immediate requirements. The small needs of consumers were met without difficulty by those houses carrying the material. Quotations ranging upward from $12.50 per ounce prevailed and gave no indication of changing in the near future.

Dillweed—Prices held firm for this oil which has been in a very tight position since the end of the last producing season. The shortage of supplies drew more attention in past weeks as pickle producers began placing orders for their summer needs. Most of the needs of the consuming season will have to be filled from material now in stock, as the next oil producing period will arrive after most pickling has been completed.

Eucalyptus—Very little trading was reported in eucalyptus oil, continuing the trend of past weeks. No increase in demand was expected in the trade for some time, as the current season normally presents little demand for the oil. Prices have been on the weak side, remaining steady during the past week at their earlier levels.

Garlic—Although some shipments were reported received, these were too small to have any significant effect on current short supplies. Most dealers maintained very low stocks and indicated that replacement in any sizable quantities was impossible to obtain. Prices held steady at their former levels, ranging upward from $9.25 per ounce.

Lavandin—Quotations remained without change during the week as no unusual activity was reported in the market. The current minimum offer of $2.10 per pound was maintained, although in view of the rather strong tone of shippers in France, this price appeared somewhat low. Other offers heard during the week ranged upward to $2.75 per pound.

Lavender—Spanish spike oil dropped by 10c. per pound during the week when a minimum quotation of $1.55 was offered. The oil has recently attracted somewhat more attention and has remained fairly steady in price. There were no indications in the trade that other price reductions would be forthcoming in the immediate future. Flower oils were unchanged in price and the market was without special feature.

Lemon—A moderately large lot of oil was reported sold in Italy to an American firm recently and is due to arrive soon. The shipment will reach a market that is extremely short of oil and is faced with a shortage due to continue for an indefinite period. Dealers here have found no answer to the short supply situation resulting in large part from the insufficient acreage under cultivation. Unless a bumper crop should arrive to relieve the situation, the demands of lemon oil consuming industries were certain to be difficult to fill. Prices during the past week remained steady within the previously quoted range which extended from $5.75 to $6 per pound, the variation caused by differences in brand.

Lemongrass—Recent price advances were held and the market remained firm during the past week. Quotations ranged from a low of $1.30 per pound, with the majority of transactions made at prices well above this minimum figure. With inquiry good and the producing season in India over, the situation appeared stabile for the immediate future. A report received recently from a shipper in India stated that distillers there are holding a considerable stock of oil which will be sent to market only if the current price level holds. The total stock is estimated at 300 tons of oil, of which at least 100 tons was

For Late Market Developments, See Page 4

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expected to be carried over to the next season and the balance either sent to market or held over, depending upon the trend of prices. Approximately four months remain before the summer producing season.

Lignaloe Wood—A price advance of 20c. per pound was noted during the week with the increasing of the former minimum quotation of $2.80. The price trend of the oil gave no indication of further extensive increases and was expected to remain steady for the immediate future. Sufficient quantities of the oil were available to fill most current inquiry, it was reported in the trade.

Nutmeg—East Indian oil remained available at the recently lowered price of $3.10 per pound, with other quotations of $3.25 and $3.35 maintained and an offer at $3.65 forming the higher edge of the range. More buying interest was centered on West Indian oil, it was reported in the trade, by reason of its lower price range.

Ocotea Cymbarum—A slight increase was reported when the minimum quotation was raised from 56c. to 58c. per pound. Other quotations ranged higher, with the quantity ordered an important factor. Very little information was available in the week just past concerning the situation in Brazil. The trend shown by the oil recently has been more stabile than for Brazilian bois de rose oil and a continuation of the earlier situation was expected.

Orange—Distilled domestic oil showed a sharp drop in price during the week as the minimum quotation sank to 30c. per pound, down 10c. The market for all domestic orange oils remained weak as the supplies of material available proved more than ample for current consuming needs and prevented any strengthening of quotations. Expressed Florida oil was priced from 70c, this offer showing a 5c. decline from the previous week. California oil ranged between 75c. and $1 per pound, depending upon maker. Some strengthening of quotations was expected shortly as a result of increased orders from the beverage and soft drink industries, but during the past week no instances materialized. Terpeneless oils remained in good supply as a result of the current situation and were unchanged in price during the past week.

Patchouli—Quotations ranged upward from $7.25 per pound and showed no new trend during the week. The oil has attracted somewhat more consumer interest, it was reported in the trade, and it was felt that prices are generally more favorable for developing inquiry than at their levels of some three to six months previously.

Peppermint—A lessened demand was noted by most dealers during the past fourteen days and some dealers stated that the oil was just barely holding its current price level. Supplies of oil were generally felt to be easily adequate for current inquiry, although higher test oil was somewhat harder to obtain. No outstanding change in the situation was expected by trade sources in the coming week.

Petitgrain—Following a report of a noticeably firmer market, no price advances materialized and events of the past week indicated that the current level of quotations would not be altered in the near future. Offers ranged upward from a minimum of $2.35 per pound for spot, with shipping prices reported steady.

Sage—The price range of recent weeks was maintained as the market showed little activity. From those sources offering Dalmatian oil quotations ranging upward from $6.75 were heard. Spanish oil was freely available from 90c. and Clary from $20. Shipping prices were reported holding steady.

Spearmint—The price advances of recent weeks were maintained and further increases in quotations were expected in the trade. The very limited supplies of oil remaining in the country have induced a firm outlook among shippers there, reflected in the current spot market. During the months remaining before any new crop oil could be expected a continuing tight supply was expected, with the requirements of non-contract consumer difficult to fill.

Wormseed—Quotations held steady during the past week. Some dealers reported the market headed for a firmer price level and expected advances in quotations, stating that the current upward trend in prices in the country would make this development inevitable.

Wormwood—Very little change has developed in price levels over the past ninety days and the market appeared headed for a continued steady level in quotations, according to the opinion of trade observers. Prices currently range from a low offer of $5.55 per pound. The oil was reported in ample supply for all average inquiry.

Aromatic Chemicals

Cetyl Alcohol—Lower prices were effected by one supplier who put quotations down by 5c. per pound. Standard material of NF specifications in large lots was offered at the new price of 58c. and in smaller lots at 59c. Material of an extra degree of refinement was made available at 78c. per pound in lots of 500 pounds or more and at 79c. in smaller lots. The reason of the current price reduction was attributed to lower production costs.

Citral—A decidedly stronger tone was noted in most quotations for the material in the past week as several suppliers increased their prices. Those sources offering the aromatic at the earlier low of $3.20 per pound maintained this quotation. Other offers, including those newly increased, ranged upward to $4.40, with differences in quantity affecting sale price. A narrower price range in the neighborhood of the current top quotation was expected in the trade as a result of recently increased costs for lemongrass oil.

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costs of lemongrass oil forced manufacturers of aromatic derivatives to increase quotations. Alpha ionone was advanced during the past week from a low offer of $3.75 to a new minimum of $4 per pound. Methyl ionone was also advanced, moving from a low of $3.80 to a new offer of $4.15. Beta ionone was unaffected by price changes during the week, the current range starting at $4.30 per pound. A wide range existed in most manufacturers' price lists, due to the various grades of each of the ionones offered. With lemongrass oil currently selling well above the prices in effect during the last quarter of 1952, the present advanced quotations for derivatives were expected to be maintained for at least the immediate future.

Phenylethyl Acetate—A lower offer from one manufacturer made the material available at $1.55 per pound, 10c. less than the earlier minimum. The material was reported in ample supply, with current production able to fill inquiry easily. All indications showed that the current lowered price would be maintained during the foreseeable future.

Terpineol—Prime material in drum lots was available at 30c. per pound and material of extra specifications was priced from 41c. per pound, also in drum lots. Producers stated that production has been ample for the present rate of consumer demand and expected no difficulty in maintaining ample shipments in the immediate future.

Bids Wanted

Acetone, 600 gals. technical acetone, Contracting Office, 180 Varick St., N. Y. 14, N. Y., inv. 123, Mar. 30.

Alcohol, 43,000 gals. in 5 gal. dms., ethyl alcohol denatured, Navy Purchasing Officer, 111 E. 16th St., N. Y. 3, N. Y., inv. 1398, Mar. 26; 2,780 5 gal. cont., ethyl alcohol, inflammable, Armed Services Medical Procurement Agency, 84 Sands St., Bklyn. 1, N. Y., inv. 1148, Mar. 20; 6,000 bots. anhydrous ethyl alcohol, Procurement Div., Supply Service, Vet. Adm. Bldg., Washington 25, D. C., inv. A-447, Mar. 25.

Aluminum Sulphate, 280,000 lbs., Navy Purchasing Office, 111 East 16th St., N. Y. 3, N. Y., inv. 1412, Mar. 27.

Ammonia, 169,000 lbs. aqua ammonia; 8,680 lbs. same, Navy Purchasing Agent, 111 East 16th St., N. Y. 3, N. Y., inv. 1401, Mar. 27.

Butyl Alcohol, 480 bots., Procurement Division, Supply Service, Vet. Adm. Bldg., Washington 25, D. C., inv. A-447, Mar. 25; 14,436 gals. butyl alcohol, Contracting Officer, Topeka Air Force Depot, Topeka, Kans., inv. 655, Mar. 30.

Calcium Hydroxide, 1,400,000 lbs., Navy Purchasing Office, 111 East 16th St., N. Y. 3, N. Y., inv. 1415, Apr. 2.

Chemicals, misc., 10,000 lbs. organic acid, 4,800 lbs. boric acid, 150,000 lbs. chromic acid, 40,200 lbs. oxalic acid, Navy Purchasing Office, 111 East 16th St., N. Y. 3, N. Y., inv. 1395, Mar. 25.

Diammonium Phosphate, 153,000 lbs., Navy Purchasing Office, 11 East 16th St., N. Y. 3, N. Y., inv. 1405, Mar. 27.

Drugs, misc., 1,752 bots., benzoin compound fluid, 1,104 1-lb. bots., camphor, 456 1-lb bots. calamine, 192 1-lb. bots., caramel, 2,880 1-oz. bots. potassium chloride, 170 100-lb. dms, sodium thiosulphate, 384 10-gm. bots. basic fuchsin, 384 ¼-lb. bots. potassium hydroxide, 10,800 jars wool fat hydrous, 5,592 1-lb. bots. xylene, inv. A-451, Mar. 25; 205 50-lb. dms. glycerin, 720 10-lb. cns. same, 250 37-lb. cns. soda lime, inv. A-453; Mar. 25; 1,336 ¼-lb. bots. sodium carbonate anhydrous, 200 5-lb. cns. same, 168 1-pt. bots. tincture opium, 192 ¼-lb. bots. menthol, 384 1-oz. bots. same, 576 1-gm. bots. homatropine hydrobromide, 384 bots. silver nitrate, 456 1-lb. bots. potassium bicarbonate, 96 ¼-lb. bots. mercuric nitrate, 48 9-lb. pkgs. polyethylene glycol, 10,560 cns. foot powder, inv. A-449, Mar. 25; 576 bots. ascorbic acid tablets, 432 bots. burows solution tablets, 2,112 bots. potassium permanganate tablets, 240 lots, thyroid tablets, inv. A-445, Mar. 25, Procurement Division, Supply Service, Veterans Adm., Washington 25, D. C.; 2,880 bots. diphtheria antitoxin, 20,000 units, USP potency 36 months, inv. 1165, Mar. 23; 960 ¼-lb. bots. hydrogen peroxide, 28%, ACS, 227,736 1-lb. bots. hydrogen peroxide solution USP, 2,400 1-qt. bots. disinfectants, germicide and fungicide solution, 800 5-gal. dms. same, 54 25-lb. dms. embedding compound, M.P. 56°C., inv. 1145, Mar. 20; 24,192 bots. oleo-vitamin A and D concentrated, 50 cs., USP, inv. 1126, Mar. 19, Armed Services Med. Procurement, 84 Sands St., Bklyn. 1, N. Y.

Insecticide, 60,000 lbs. in 5-lb. cns., insecticide, DDT, technical grade, 100%, 31,525 lbs. in 5-gal. cns. insecticide, DDT, water dispersable, powder, inv. 1396, Mar. 23; 40,000 lbs. in 25-lb. pails insecticide, powder, louse, 34,800 1-gal. cns. roach and ant control, residual spray, 3,008 pkgs. rodenticide, general control, inv. 1389, Mar. 24, Navy Purchasing Office, 111 E. 16th St., N. Y. 3, N. Y.; 6,000 aerosal bombs, DDT, inv. NY-3D-44829, Mar. 19, General Services Adm., Business Service Center, P.O. Box 39, Canal St. Station, N. Y. 13, N. Y.

Isopropyl Alcohol, 790 54-gal. dms., 25,100 5-gal. cns., Armed Services Med. Procurement Agency, 84 Sands St., Bklyn. 1, N. Y., inv. 1148, Mar. 20.

Methyl Isobutyl Alcohol, 3,650 gals., Contracting Officer, Topeka Air Force Depot, Topeka, Kans., inv. 658, Mar. 30.

Paint, 20,000 gals. interior oil paint, inv. B-54496, Mar. 23; 11,600 gals. paint, exterior oil, inv. JD-B-54495, Apr. 6; 10 items of enamel, various quantities and colors, inv. JD-B-54498, Apr. 6; 46,696 1-gal. cns. enamel, aircraft, gloss, insignia, white, 416 1-gal. cns. lacquer, cellulose nitrate, aircraft gray, inv. B-54497, Mar. 25; 27,710 in 50-55 gal. dms. turpentine, type I, gum spirits, inv. B-54503, Mar. 25, Aviation Supply Officer, 700 Robbins Ave., Phila. 11, Pa.; 2,225 1-gal. cont., turpentine, gum spirits, inv. 3G-26740-R, Mar. 23; 11,000 gals. gum spirits turpentine, inv. 3N-20270-R, Mar. 23, Business Service Center, General Services Adm., Rm. 7120, 7th & D Sts., S.W., Washington 25, D. C.

Aluminum Paint, 300 1-gal. cns., 1,050 in 5-gal. cns., oil paint, interior, 72 1-gal cns. paint and varnish remover, 180 1-gal. cns. spar varnish, inv. NY-3D-44952, Mar. 20; 750 gals. linoleum cement, 60 gals. filler, paste, 36 qts. wood filler, 150 gals. paint, 240 gals. lacquer thinner, 120 gals. interior varnish, inv. NY-3D-54213, Mar. 24, General Services Adm., Business Service Center, P.O. Box 39, Canal St. Station, N. Y. 13, N. Y.; 4,792 gals. enamel, inv. LA-936, Mar. 23; 1,442 gals. varnish, various types and quantities, inv. LA-935, Mar. 23, General Services Adm., Business Service Center, Region 9, 1031 S. Broadway, Los Angeles 15, Calif.; 274 gals. white sign paint, 120 gals. black and white enamel, inv. 76, Mar. 27, Contracting Officer, Pueblo Ordnance Depot, Pueblo, Colo.; 300 gals. in 5-gal. conts., primer, R 3 thermoline, inv. 395, Mar. 20, Contracting Officer, Oklahoma City Air Material Area, Tinker Air Force Base, Oklahoma City, Okla.; 400 gals. floor or deck paint, 400 gals. interior oil paint, inv. CIVENG-113, Mar. 25, Contracting Officer, Memphis Dist., Corps of Engineers, P.O. Box 97, Memphis 1, Tenn.; 3,735 gals. enamel lacquer, inv. 40, Mar. 25, Contracting Officer, Dallas Chemical, 1200 Jackson St., Dallas, Tex.; 1,350 gals. enamel, 3,422 gals. enamel thinner, inv. 31, Mar. 27, Contracting Officer, Chemical Corps, Rocky Mountain Arsenal, Denver, Colo.

Sodium Hydroxide, 40,000 lbs. caustic soda, Contracting Office, Chemical Procurement Office, 180 Varick St., N. Y., N. Y., inv. 122, Mar. 20.

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Price schedules of the lead oxides reflected firmer tones of the pig lead market last week, thus erasing the decline of the preceding week. Red lead, litharge, and orange mineral were all effected. Lead monosilicate also went back up with the oxides. Zinc dust came down a fraction following the trend set by slab zinc the previous week. Red vermilion, quicksilver came down in two successive drops, and mercury prices decreased.

Pigment producers said that business has shown some signs of picking up a bit. Sources stated that the beginning of the spring paint season was being felt. Demand for lead pigments has seen some improvement. Zinc oxide was moving at a fair rate. A source announced an increase in red cadmium lithopone prices which created a new range of prices quoted by producers.

One producer announced increases of synthetic resin prices as a result of higher raw material costs. The increases were effective March 16 for non-contract shipments, and effective the second quarter on contracts. Effected were some modified alkyds, copolymer modified alkyds, maleics, and ester gums. Demand for alkyds has been sustained at a good level. Ester gums were showing fair activity. The market for maleics was still enjoying a good number of calls. Phenolics continued to sell at a relatively high level. Paraphenylphenolics remained in short supply.

Some improvement in demand has been noted for the natural gums since the beginning of the year, it was said. Prices have held to their levels, which were low enough to induce some additional buying. There has been no price activity in the shellac market. Business was fairly steady, sources said. Casein remained the same as it had been. Consumers have not developed too much buying interest. But, there was a fair amount of sales. Offerings lower than those considered to be the market value were still being heard. A second producer has increased its wet-ground mica prices to allow for past freight increases.

Price Trends

Advanced

Lead, monosilicate, 48/100c. per lb.
red, 95%, 97%, 98%, ½c. per lb.
Litharge, ½c. per lb.
Orange mineral, ½c. per lb.

Reduced

Red vermilion, quicksilver, 7c. per lb.
Zinc dust, ¼c. per lb.

Comparative Price Indexes

(100=1949 average)

Last week	Prev. week	Last month	March 14, 1952
88.43	88.43	88.43	101.19

(*For Current Prices see page 9*)

Lead, Red—Prices increased ½c. last week following the strengthening of the pig lead market. Current quotations of the material 95 percent Pb_3O_4 were at 16¼c. per pound in carlots, and 17¼c. per pound in less than carlots. The 97 percent grade was 16½c. per pound in carlots, and 17½c. per pound in less than carlots. Carload quantities of the 98 percent material were at 16¾c. per pound, and less than carloads were at 17¾c. per pound.

Orange Mineral—Price schedules of this pigment were increased ½c. making up the similar loss of the previous week. The fluctuations resulted from changes in pig lead. Current prices were quoted at 19.6c. per pound in less than carlots. Carload quantities were 1c. lower, but the majority of sales are made on an l.c.l. basis, it was said.

Red Cadmium Lithopone—One producer announced an increase of 7c. in schedules for these colors. The increase created a new range of prices among various producers' schedules. The deep red shade became $1.76 to $1.83 per pound. Light shade was $1.61 to $1.68 per pound. Maroon was from $1.85 to $1.92 per pound. Medium shade became $1.71 to $1.78 per pound. Medium-light red shade was quoted at $1.66 to $1.73 per pound. Orange-red became $1.57 to $1.64 per pound. All of the foregoing prices are on a freight allowed basis, in barrels.

Red Vermilion, Quicksilver—Two declines amounting to a 7c. reduction brought the price of this pigment down to $3.67 per pound. The decreases have been the result of reduced costs of mercury.

Yellow and Orange Chromes, C.P.—Production amounted to 1,915 short tons in December, as against 2,046 tons produced in November, and 2,044 tons put out in December 1951, information from the Bureau of Census indicates.

Yellow Zinc, C.P.—December production of zinc chromate was 526 short tons, against November output of 515 tons, and production of 729 tons in December 1951, according to figures from the Bureau of Census.

Zinc Dust—The price of this material was reduced ¼c. last week making carlot quotations 15¼c. per pound.

Zinc dust production in December was 2,275 tons, according to a report from the Bureau of Mines. This was a decrease of 9 percent from the average for the preceding three months, but 10 percent above the monthly average for January-November.

Chrome Pigments

Cobalt Oxide—The following figures are from the Bureau of Mines. Gross weight of kegs are listed with cobalt content in parentheses. December production was 16,000 pounds (6,380), against November output of 18,021 pounds (7,255). Total output for 1952 was 745,934 pounds (539,467).

December shipments were 50,140 pounds (20,332), while November shipments were 150 pounds (55,317). Shipments for the year totaled 708,674 pounds (512,581). Stocks at the end of December were 68,000 pounds, gross weight, compared with 815 pounds at the end of November.

Green, Chrome, C.P.—December production of this color amounted to 624 short tons, compared with November output of 2 tons, and December 1951 production 479 tons, according to the Bureau of Census.

Lead and Zinc Pigments—Shipments of white lead and zinc pigments and zinc salts in 1952 were well below the 1951 rate, according to the Bureau of Mines. Decreases were varied, ranging from 4 percent for zinc oxide of 39 percent for lithopone. Shipments of litharge, red lead, leaded zinc oxide, and white lead were 8, 11, 12, and 30 percent, respectively in 1952. Zinc sulphate deliveries were down 21 percent from the 1951 total. Decreases in shipments of pigments and salts are attributed partly to decreases in business volume of important industrial consumers, and partly to increased use of substitutes.

Shipments of red lead totaled 31,565 short tons in 1952, compared with 35,352 tons in 1951. Litharge shipments last year amounted to 142,855 tons, as against 154,-3 tons the previous year. Zinc oxide shipments were reported at 141,568 tons, compared with 147,716 tons in 1951. Shipments of leaded zinc oxides in 1952 totaled 7,007 tons, while 1951 shipments were 8,341 tons. Lithopone shipments in 1952 were at 62,604 tons, compared with 102,-7 tons shipped in 1951. The 1952 tonnage of zinc sulphate was 18,521 tons, while 1951 shipments amounted to 23,524 tons.

Lead Monosilicate—The price of this pigment was brought back up 48/100c.-½c. recovering from the previous week, following the recovery of pig lead. Current quotations of carlots were at 14.64c. per pound, while less than carlots were at 14.65c. per pound.

Synthetic Resins

Alkyds—Demand from industrial finishes and protective enamels has kept this market operating at a brisk pace. Producers were moving their output quite readily. Supplies were generally adequate to cope with the demand.

One producer's announcement of prices which become effective today (March 16) includes some increases for modified alkyds and copolymer modified alkyds. It was said that increases in the costs of raw materials, particularly soybean oil and glycerin, were behind the advances. Some other producers have not increased their schedules at this time because they have already incorporated the increased glycerin and soybean costs in their latest schedules.

Gum Esters—There was no significant change in the levels of activity in this market. Demand for the ester gums was described as fair. Supplies were ample enough to accommodate the requirements of consumers.

Rising costs have led one producer to announce an increase in schedules for some ester gums. The advance in prices was to take effect March 16 on all shipments other than contract shipments. Consumers having contracts through the first quarter would not be required to pay the increase until second quarter contracts are made.

Maleics—The market for these syn-

For Late Market Developments, See Page 4

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COLORS
Colors vary from light (Coal Tar Resin Color Scale numbers 1½ to 3½) through medium, reddish, dark to extra dark (nos. 12-16).

WEIGHTS
PICCOUMARON Resins vary in weight according to the melting point, averaging 8.5 to 9.2 pounds per gallon.

CHEMICAL PROPERTIES
Have good acid resistance, being inert to all except concentrated oxidizing acids; good alkali resistance; do not react with most pigments. Composition is essentially para-coumarone-indene polymer.

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Suitable plasticizers include: most of the chemical or ester types; most of the aromatic types; most of the aromatic hydrocarbon types such as Di Polymer oil, heavy coal tar oils and the like; most heat-bodied oils; cottonseed pitches; soft petroleum residues.

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thetics has not changed significantly. The sales level was quite satisfactory, according to several sources. Good activity in the furniture trade has been reflected in the market for maleics. Supplies were adequate for the current needs of consumers.

One producer announced that increased costs would be reflected in the price schedules for a few maleics effective March 16. The advance is to be applied to all non-contract shipments. Consumers protected by contracts would not feel the advance until the beginning of the second quarter.

Phenolics—A relatively high level of demand has sustained the market for these synthetics. Some sources felt that the industry could look forward to a good sales period in the second quarter. There were no price changes reported in the market for phenolics. Supplies of these resins were generally good. But, the shortage of paraphenyl phenolics still persisted. The tight supply of paraphenyl phenol derived resins was principally due to heavy government requirements of these materials.

Natural Resins

Demand for natural gums has shown relatively good improvement since the first of the year, a source said. Sales were at a satisfactory level. Larger consumers were buying a little bit in advance. However, smaller buyers were still making their purchases on a hand-to-mouth basis. It was added that buying of this type makes it difficult to predict future consumer needs, consequently some shortages are apt to develop for a limited period. No particularly critical shortages were expected to develop. It was reported that the buying situation just described has caused a temporary scarcity of No. 1 Singapore. Incoming shipments at the end of the month were expected to relieve the problem.

Shellac—There have been no significant changes in this market. Suppliers said that sales were at a moderately good level. Buying was steady, but not heavy. Prices schedules of the orange and bleached grades have remained at their previously established levels.

Miscellaneous Materials

Casein—Importers said that there was comparatively little change in the market for casein. Argentine material continued to be quoted at the same approximate levels. The regular market was considered to be between 16c. and 17½c. per pound, based upon the 12c. Argentine floor price. However, reports were still frequent that purchases were being made below the 12c. f.o.b. price, and quotations were heard below 16c.

The instability of the market has prompted consumers to shop carefully, buying only when they needed material and when the price was right. Importers felt that the mills would not come out and buy for their future needs as long as the current situation persists.

Litharge—The recovery of lead metal was reflected in the prices of this oxide last week. The ½c. drop of the previous week was wiped out as quotations came back up to 15¼c. per pound in carlots, and 16¼c. per pound in less than carlots.

Mica—A second producer announced that it had increased its wet-ground mica prices ½c. per pound. It was said that the increase was long overdue because of the increase of freight rates during the period which mica prices were under ceiling control. The present increase did not effect the range of prices already established, but did add another producer's schedules to the outside of the range. Other sources have not reported the increases yet, but it was felt that similar steps might be taken.

Naval Stores

Rosin, Gum

(USDA, per 100 lbs.)

	Fri.	Mon.	Tues.	Wed.	Thur.
B	...	...	...	7.35*	...
K	7.45*	...	...	7.30*	...
M	...	...	7.37*	...	7.34*
N	...	...	7.37‡	7.43*	...
WG	...	...	7.77*‡	...	7.84*
WW, X	...	7.65‡	7.80‡	7.80*	7.87*

Sales, USDA
1† 211* 1,513* 380* 1,350*

New York
(per 100 lbs., c.l., Friday)
B through N, $8.70; WG $8.80; WW $8.90.

Turpentine, Gum

(USDA, per gal., 7.2 lbs.)

Price	.54†	.537†	.539†	.5375†	.54†
Sales	12,000§	18,000§	12,000§	8,000§	8,000§

New York, Friday, per gal. 7 lbs., tankcars, 61c., l.c.l. 72c.

*Drums. †Tankcars. ‡Bags. ¶Carlots. §Gallons.

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Plastics for Air Conditioning Cabinets Use Rise Seen

Development of a new major market for large molded plastics parts has been revealed by John L. McMurphy, general manager of the plastics department of the General Electric Company, Pittsfield, Mass., who predicts that all important makes of window air conditioners will be housed in one-piece plastics cabinets by mid-1955.

"In two years, the plastics industry will be producing air conditioning cabinets at an annual rate exceeding 450,000," Mr. McMurphy declared. G. E., itself a major producer of air conditioning equipment, estimates industry-wide sales of 700,000 window air conditioners in 1955, more than double the 325,000 units sold in 1952.

The G-E official made his forecast on the eve of the initial rail shipment of one-piece plastics cabinets from the company's Decatur, Ill., molding plant. Believed to be the first one-piece injection-molded housings ever molded for room air conditioners, the 6½-pound plastics cabinets are 26 inches wide, 15 inches deep, and 14 inches high. They are produced in a steel mold weighing 5¼ tons.

Dewey & Almy Announces New Paint Dispersing Agent

Production of the first dispersing agent available as the potassium salt, in powder form, and specifically adapted to the needs of the latex paint industry has been announced by the Dewey & Almy Chemical Company, Cambridge, Mass.

The product, "Daxad 11KLS," has a very low sodium and sulphate ion content and helps control the efflorescence occurring on the surface of latex paints, particularly when applied to plaster. The material eliminates the necessity of using dispersing agents in the form of sodium salts, according to Dewey & Almy.

Nat'l Lead Names Crowe Trade Sales Mgr. in West

D. R. Crowe has been named manager of the trade sales finishes department of the Pacific Coast branch of National Lead Company, New York. Mr. Crowe started with the company in the San Francisco office in 1934, serving in the statistical department and on the order desk. He was transferred to Oakland, Calif., in 1938, working first as a store clerk and then as outside salesman. In 1948 he was named trade sales supervisor for the central division and in 1950 an assistant sales manager.

Lucidol Division Increases Capacity for Catalyst Output

The Lucidol Division of the Novadel-Agene Corporation, Buffalo, N. Y., has announced the recently completed installation of a new unit for the production of "Lupersol DDM." The unit was installed to give Lucidol the additional capacity necessary to meet the demand for use of this catalyst with polyester resins. Now in the installation stage is additional drier capacity to care for a heavy demand for "Alperox C" technical lauroyl peroxide.

ACS, Los Angeles Paint Technicians Meets Tomorrow

A joint American Chemical Society-Los Angeles Paint and Varnish Production Club dinner will be held tomorrow at the Mayfair hotel, Los Angeles. A social hour will begin at 5:30 p.m., to be followed by dinner an hour later, at which Clyde Smith, a member of the production club, will speak on "The Growth of the Paint Industry on the West Coast."

O'Brien Facility Expanded

The O'Brien Corporation, South Bend, Ind., has completed a new warehouse addition to its plant in that city, increasing by over 15,000 square feet its warehousing capacity for finished products. Fabricated entirely of concrete, on the site of erection, the building is of the tilt up type. Designed with an unusually high ceiling, it permits the palletizing of greater quantities of finished stock through the use of fork lift trucks.

Paint Stripping Data Offered

A new thirteen-page fact sheet booklet of instructions on paint stripping has been published by Octagon Process, Inc., of 15 Bank street, Staten Island 1, New York. It describes in detail and gives exact procedures for using eleven tailored types of Octagon paint strippers designed for stripping practically any finish from all metals, including aluminum and delicate alloys, and from all woods. There is also a hint sheet which gives information on paint stripping generally. In convenient, reference sheet form, it takes up wipe-on, immersion and spray methods of paint removal by means of hot alkaline, hot solvent and cold solvent tailored types. Stripping of paints from vertical and overhead surfaces of all kinds is also covered.

South Korean Hog Bristles Import Licenses Approved

The Treasury Department announced last week that licenses will be issued for the importation of hog bristles from Korea upon certification by the Republic of Korea that the bristles are of south Korean origin. The licensing program is the same as that announced recently for products of Japan, including hog bristles of Japanese origin.

Trade Briefs

Rinshed-Mason Company has named William B. Lutz a sales representative.

Inertol Company has appointed James A. Condon manager of advertising and technical services.

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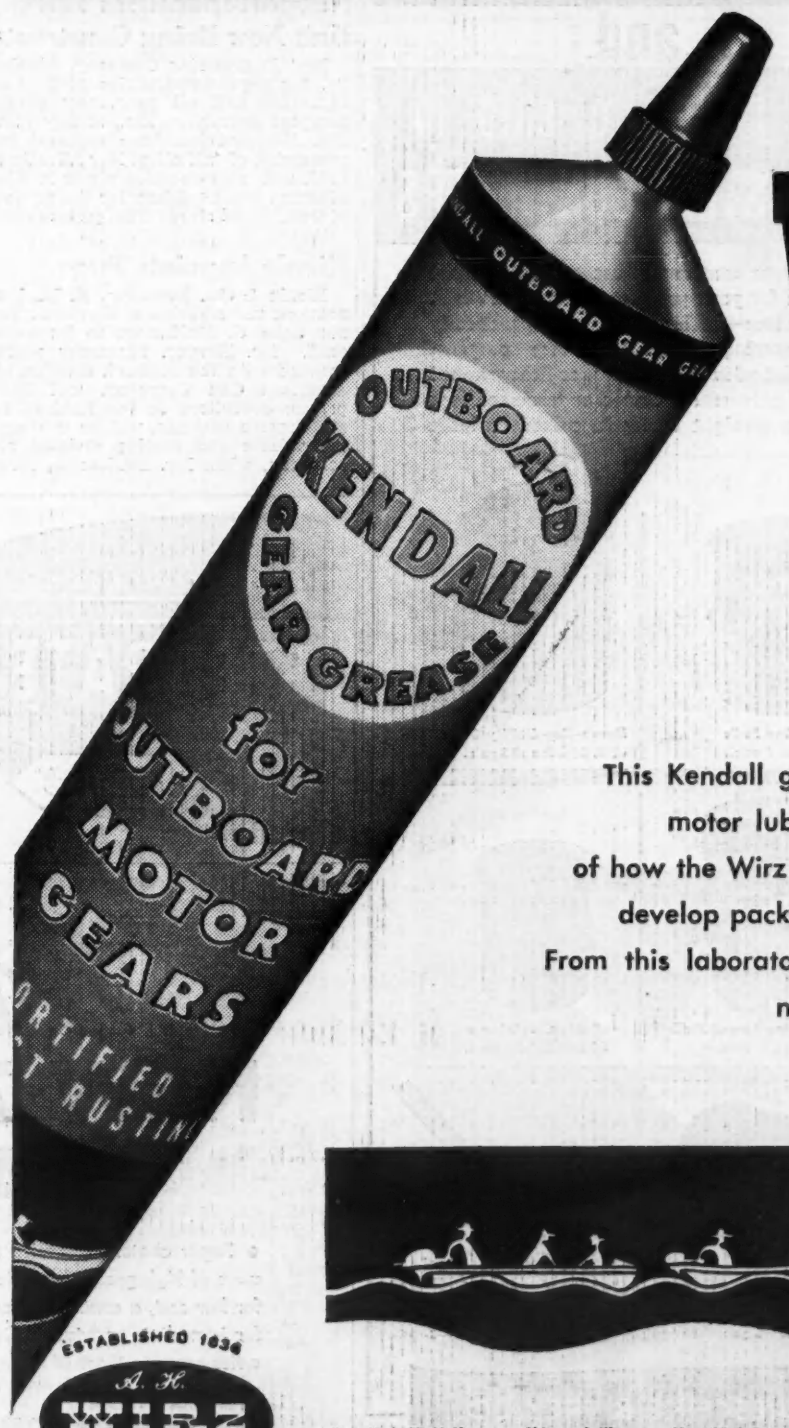

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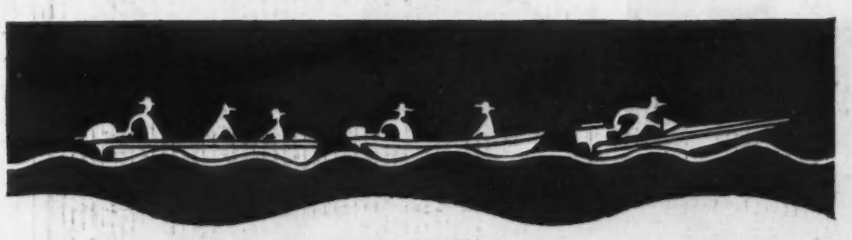

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Copra, Coconut Decline In Philippines Forecast

A decline of as much as 10 percent in Philippine production this year of copra, coconut oil, and desiccated coconut is forecast in a report from the American Embassy, Manila, made public last week by the Office of Foreign Agricultural Relations. In terms of copra equivalent, it was stated, production may drop to as low as 840,000 tons.

E. S. Fox, of the American Embassy, stated that recovery from the severe typhoon damage suffered in the Bicol region will require approximately three years. An improvement in export activity, however, is expected in the latter part of 1953 because of lower stocks of copra and other coconut products on the American and European markets, it was stated.

Production of copra, coconut oil and desiccated coconut in terms of copra equivalent in 1952 is estimated at about 934,190 long tons, or 10 percent less than the 1951 total of 1,036,320 tons and 6 percent less than the 1950 output of 991,435 tons. While the 1952 production of copra and desiccated coconut was below the two preceding years, coconut oil production of 149,563 tons exceeded 1951 output by 5 percent and, in fact, was the largest recorded oil production since the war. Approximately 69 percent of the total coconut production last year went into copra, 5 percent went into desiccated coconut, and 26 percent went into coconut oil, of which 46 percent was utilized domestically.

Newport Industries Tall Oil Unit Now Being Constructed

Rust Engineering Company, Pittsburgh, Pa., has begun construction work on a new $2,700,000 tall oil processing plant for Newport Industries, Inc., at Bay Minette, Ala. Newport has been engaged in the processing of tall oil at Bay Minette since 1948, and also operates plants in Florida, Alabama and Louisiana for the production of wood naval stores from pine stumps.

Kienle Appoints Two

Kienle & Co., Brooklyn, N. Y., has announced the addition of David H. Harper and John C. McNamara to its technical staff. Mr. Harper, for many years associated with the research division of the American Can Company, and lately a private consultant in the field of resins and organic coatings, will be in charge of the vehicle and coating division of the company, while Mr. McNamara, formerly with the T. J. Ronan Paint Company, and the H. Cavanagh Company, will be engaged in the development and marketing of special protective and decorative finishes.

Gum Turpentine Purchase Funds Granted to Formosa

The Mutual Security Agency announced last week that funds have been made available to Formosa for the purchase of 11,000 gallons of pure gum turpentine to be packed in export drums of nominal 55 gallon capacity. Bids for supplying the item must be submitted to the General Services Administration by March 23. The invitation number is 3N-20270-R-3-23-53.

Emery Industries Adds Farr

Emery Industries, Inc., Cincinnati, Ohio, has appointed John D. Farr to its development and service department. Mr. Farr has had considerable experience in vinyl plastics and synthetic rubber with the B. F. Goodrich Company, at both its Akron and Marietta, Ohio, plants. In his new capacity, Mr. Farr will be concerned with all development and technical service activities pertaining to Emery's "Plastolein" plasticizers.

Resin Renamed by Monsanto

The Monsanto Chemical Company's new foundry resin which eliminates clay balls from foundry sand has been renamed "Lytron 886" to avoid any possible confusion of the company's trade names. The announcement was made by Edmond S. Bauer, at the plastics division, Springfield, Mass. The item was introduced in January as "Lustrex 886."

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Oils, Fats and Waxes

Feature of the oils and fats market was strength of edible oils, which registered further advances last week. Trading was more active with refiners taking crude oils for prompt and forward delivery. Corn, cottonseed and soybean oils scored fractional advances, while light stocks of peanut oil were boosted 2½ cents per pound.

Coconut oil also continued to move upward, due to limited offers for shipment on the Pacific coast and scanty stocks here. Copra also was higher, but nominal owing to scarcity of offers.

Tallow and greases were stronger and fractionally higher. Trading was more active for domestic and export account. This market also reflected the strength of western markets.

Fatty acids were advanced due to the increased cost of tallow and basic vegetable oils. Coconut, soybean, oleic, stearic and tallow acids were lifted ½ cent per pound, while lauric 90 percent was raised 1½ cents.

Linseed oil became steadier with the higher flaxseed market and sellers were less disposed to shade the market. Tung oil was inactive, with quotations held at former levels. Oiticica was unsettled and quotations were reported fractionally lower. Refined fish oil remained steady at the recent advance. Rice bran was quite active and prices advanced with the higher cost of competing oils.

Government owned cottonseed meal was offered by CCC at $10 per ton below ceilings. Trading, however, was reported slow, with sellers meeting government prices. Interest in other oil meals continued to lag. Linseed meal was off $1 per ton; peanut, $1 to $3 and soybean, 50 cents to $1 per ton.

The tone of carnauba market improved with the clearance of distressed lots. No. 3 crude and refined were steady, while increased offers of No. 1 yellow caused prices to decline 1 cent per pound. Refined ouricury was off 1 cent per pound.

Price Trends

Advanced

Acid, coconut, ½c. per lb.
Lauric, 90%, 1½c. per lb.
Oleic, ½c. per lb.
Soybean, ½c. per lb.
Stearic, ½c. per lb.
Tallow, ½c. per lb.
Copra, $25 per ton.
Greases, ⅜c. per lb.
Lard, ¾c. per lb.
Oil, coconut, crude, 2¼c. per lb.
Corn, crude, ⅜c. per lb.
ref., ⅜c. per lb.
Cottonseed, crude, ½c. per lb.
ref., ½c. per lb.
Peanut, crude, 2½c. per lb.
ref., 2½c. per lb.
Rice bran, ⅜c. per lb.
Soybean, crude, ⅝c. per lb.
ref., ⅝c. per lb.

Reduced

Linseed meal, $1 per ton.
Oil, oiticica, ¼c. per lb.
Peanut meal, $1 to $3 per ton.
Soybean meal, 50c. per ton.
Wax, carnauba, yellow, No. 1, 1c. per lb.
No. 2, 1c. per lb.
Ouricury, 1c. per lb.

Comparative Price Indexes

(100=1949 average)

Last week	Prev. week	Last month	March 14, 1952
102.63	103.40	103.12	108.61

(For Current Prices see page 9)

Vegetable Oils

Castor Dehydrated—Consuming demand was confined to actual needs. Market was steady and quotably unchanged. Trading in No. 1, Brazilian improved and market was steadier at 22¾c. per pound, tankcars, New York, prompt delivery.

Coconut—Price trend continued upward and sales of crude were reported active. Nearby shipment was lifted to 20c. per pound, tankcars, f.o.b., Pacific Coast and 21c. New York.

Copra — Offers for shipments were scarce. Market was stronger and nominal at $260 per ton, c.i.f. Pacific coast.

Corn—Prices were stronger for crude and sold at 15⅛c. per pound, tankcars, f.o.b. mills. Offers were scarce and closely held with competing oils. Refined oil advanced to 18⅝c. per pound, tankcars, New York delivery.

Cottonseed—Bleachable cottonseed oil futures continued on a steady basis last week reflecting higher crude cottonseed oil and allied markets. May and July reached new highs for the season, under short covering which were not sustained due to liquidation and selling against crude purchases. Tenders on March contracts increased to 70 tankcars, which were readily absorbed. Higher crude also stiffened refined oil and tankcars were lifted to 18½c. per pound, New York delivery. Trading in crude was active and market advanced ½c. per pound. Sales were reported at 15c. per pound, tankcars, f.o.b. mills, in the Southeast and Valley and at 14¾c., Texas.

Tenders of new crop oil to the government were reported at about 11,100 tankcars, combined with 2,200 of old crop oil increased government holdings to 13,300 tankcars. CCC reported the sale of 85 tankcars of crude at 15¼c. per pound, f.o.b. California mills.

Sales and prices of prime summer yellow cottonseed oil futures in tankcars (60,000 pounds) on the N. Y. Produce Exchange for the period ended March 13 follow:—

	Sales	Cents per pound—High	Low	Close
March	127	17.21	16.93	Expired
May	451	17.25	16.95	17.16S
July	267	17.10	16.55	17.05S
September	88	16.20	15.70	16.19@16.25
October	22	15.25	15.50	15.79B
December	5	15.70	15.36	15.70@16.00

Total sales, 960 contracts.

Memphis—Crude cottonseed oil was sold at 15c. per pound, tankcars, f.o.b., mills and crude soybean oil at 13¾c. tankcars, Decatur, March shipment. Demand for cottonseed meal still indifferent. Some mills meeting government price of $10 per ton below ceilings, but no heavy selling pressure developed.

Linseed — This market developed a firmer tone with the advance of flaxseed and price shading was materially reduced for tankcar business. Early in the week some business in raw oil was reported at about 14½c., tankcars, f.o.b. Minneapolis, and later 14.8c. was the best that could have been done on a firm bid and only for prompt shipment. Open quotations were unchanged at 15c. per pound, tankcars, f.o.b. Minneapolis and 16¼c., New York basis. Marked mprovement was noted in the demand for oil against former contracts and deliveries since the first of the month reached a good volume.

Minneapolis—Linseed oil business the past week consisted only of light scattered lots booked by small users as large buyers remained on the sidelines. Shipping directions increased at a steady rate. Crushers held the asking price of raw oil unchanged at 15c. per pound, tankcar basis, f.o.b., Minneapolis. Oil for warehouse basing was priced at 15.2c. a pound.

Shipments of linseed oil, in pounds, were as follows:—

	1952-53	1951-52
Past week	7,080,000	8,760,000
Since Sept. 1	203,880,000	222,600,000

Flaxseed—Market reacted higher and closed firm. Offers of seed were light, restricting business.

Minneapolis — Cash flaxseed prices ruled strong the past week, with No. 1 seed selling around $3.96 a bushel, delivered Minneapolis price. Receipts from the country were insignificant and trading in futures was very light bringing activity in the flaxseed market to a seasonal low. Trading basis went over to May on a 4c. spread and cash value of flaxseed held firm on the changeover. Many crushers were in need of new supplies, but most of the recent deliveries against March futures contracts (about one-half million bushels) went into the hand of these crushers.

Receipts and shipments of flaxseed, in bushels, were as follows:—

	Receipts 1952-53	Receipts 1951-52	Shipments 1952-53	Shipments 1951-52
Past week	53,300	163,200	86,700	119,000
Since Sept. 1	12,471,200	18,768,400	2,150,850	3,924,100

Oiticica — This market was unsettled and trading was reported in refined oil at 24c. per pound, tankcars, New York for prompt delivery. Drums also were lower at 25½c. to 26c. per pound, depending upon quantity.:

Olive—Edible olive remained firm and unchanged at $2.60 to $2.65 per gallon, drums, spot, duty paid. Stocks were light and in firm hands. Small lot trading was reported at this level. Shipments from Spain were unavailable because of suspension of export licenses by the government.

Palm—Market was quiet and unchanged. Tankcars were quoted at 11.10c. per pound prompt delivery and 12.40c. for drums.

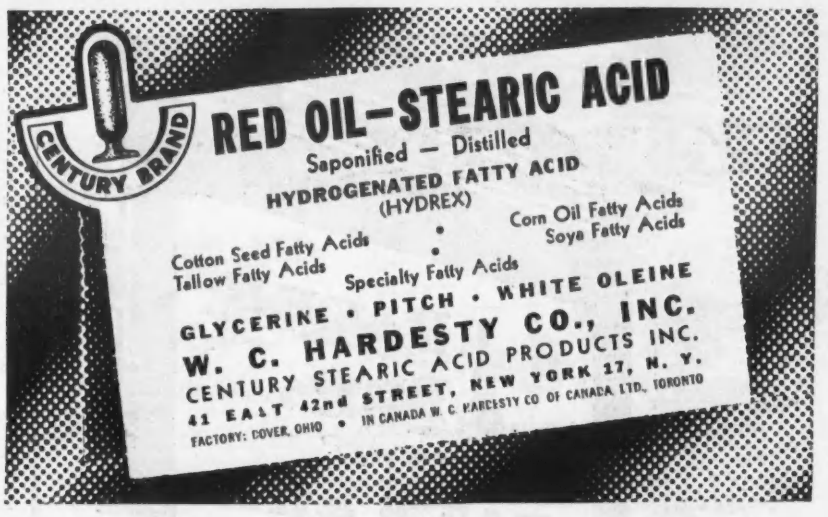
Palm Kernel—Scarcity of supplies and higher coconut oil kept this market firm. Tankcars were quoted nominally at 17c. per pound, in bond.

Peanut—Scarcity of stocks and higher cost of competing oils boosted bids for crude to 26c. per pound, tankcars, f.o.b., mills, prompt shipment, with 26½c. asked. Previous business was reported at 24c., same basis. Refined oil was higher and nominal at 30c. per pound, tankcars, New York delivery.

Rice Bran—Improved trading combined with higher cost of soybean oil, lifted prices fractionally. Tankcars were quoted at 13¾c. per pound, and drums 16c. for prompt delivery.

Rapeseed—A firm tone prevailed and

For Late Market Developments, See Page 4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refined oil was well held at 16¾c. per pound, tankcars, New York, prompt delivery. Sales were reported at this figure.

Soybean—Stronger soybeans and limited offers further stiffened this market, advancing prices fractionally. Crude oil was lifted to 13⅞c. per pound, tankcars, March shipment; 13¾c., April; 13⅝c. May and 13⅜c., July. Refined grades were up ½c. Salad was raised to 16⅝c. per pound, tankcars, New York prompt delivery. Alkali refined and clarified were higher at 16¼c. and 15¾c., tankcars, respectively, New York basis.

Sales and prices of prime soybean oil futures on the N. Y. Produce Exchange in tankcars (60,000 pounds) for the period ended March 13 follow:—

	Sales	Cents per pound High	Low	Close
March	11	13.84	13.35	13.82@13.85
May	39	13.57	13.15	13.57@13.58
July	25	13.30	12.82	13.37@13.45
September	20	12.90	12.40	12.90@13.05
October	1	12.35	12.35	12.45B
December	2	11.75	11.70	12.00@12.20

Total sales, 98 contracts.

Tung—Consuming inquiry was confined to an occasional tankcar for immediate delivery. Prices were without change and nominal. Domestic oil was quoted at 28¼c. per pound, tankcars, f.o.b., mills. At New York tankcars were offered at 30c. per pound, prompt delivery.

Fats and Greases

Greases—Trading improved and prices were lifted at ⅜c. per pound. The bulk of trading was for export delivery. Domestic demand was fairly active for small lots. Offers were limited and reflected the strength in the West. Choice white was quoted at 5¾c. per pound, tankcars, delivered; yellow, 4⅝c.; house 4½c. and brown, 4⅛c. same basis.

Lard—This market was firmer with vegetable oils and improved demand for export. Prices were fractionally higher. Cash lard was quoted 10½c. per pound, tierces, Chicago.

Tallow—Active trading chiefly for export and fair domestic buying, boosted all grades ⅜c. per pound. Offers were light and the market closed firm, reflecting the strength in western markets. Good volume of business was booked for shipment from Gulf ports. Edible oil was quoted at 7¼c. per pound, tankcars, delivered; fancy, 5⅜c.; extra, 5⅛c.; special, 4⅞c. and No. 1, 4¾c. Sulphonated grades were up ¼c. per pound.

Animal Oils

Firmness of tallow and greases markets served to improve the tone of other animal oils. Consuming demand was more active for prompt needs. Greases and tallow oils were maintained at former levels. Neatsfoot oil was advanced by some sellers, due to the higher cost of stock. Oleo oil and stearin were unchanged and steady.

Fish Oils

Cod—Primary market remained firm and light offers for shipment were maintained at 8½c. per pound, drums, exdock, New York. Buying interest was fairly active. Stocks on spot were quoted at 9½c. to 10c. per pound, as to quantity.

Refined Fish—This market was steady at the recent advance, and reflected the strength of crude. Light pressed oil was well held at 11c. and alkali refined, 12c. per pound, tankcars, New York basis. Crude menhaden was firm as the bulk of old crop has been cleared from the market. Tankcars were quoted at 7½c. per pound tankcars, f.o.b. Baltimore and 7c., Gulf ports

Los Angeles—Trading in domestic oils was quiet last week. Tuna fishing conditions have been extremely poor off the South American coast with production light and no new crop oil sold to date. Quotations were nominal at 6c. per pound, f.o.b., San Pedro. Mackerel oil quotations were nominal at 7.125c. per pound, San Pedro, with little production expected before August-September. Little movement on menhaden oil from Gulf ports was reported, with quotations 6½c.-7c. per pound.

Fatty Acids

Higher cost of tallow and vegetable oils stiffened fatty acids and quotations were lifted ½c. per pound for most grades. Coconut, oleic, stearic and soybean acids were up ½c., while lauric 90 percent was boosted 1½c. per pound. Coconut, distilled was advanced to 23c. per pound, tankcars; double distilled, 23½c.; oleic acid, single distilled, 10¾c.; soybean, single distilled, 11¾c. and tallow, 8¼c. per pound, same basis. Stearic acid, single pressed, 11c. per pound, bags, carlots; double, 11½c. and triple, 13¾c. Smaller quantities commanded the usual premi-

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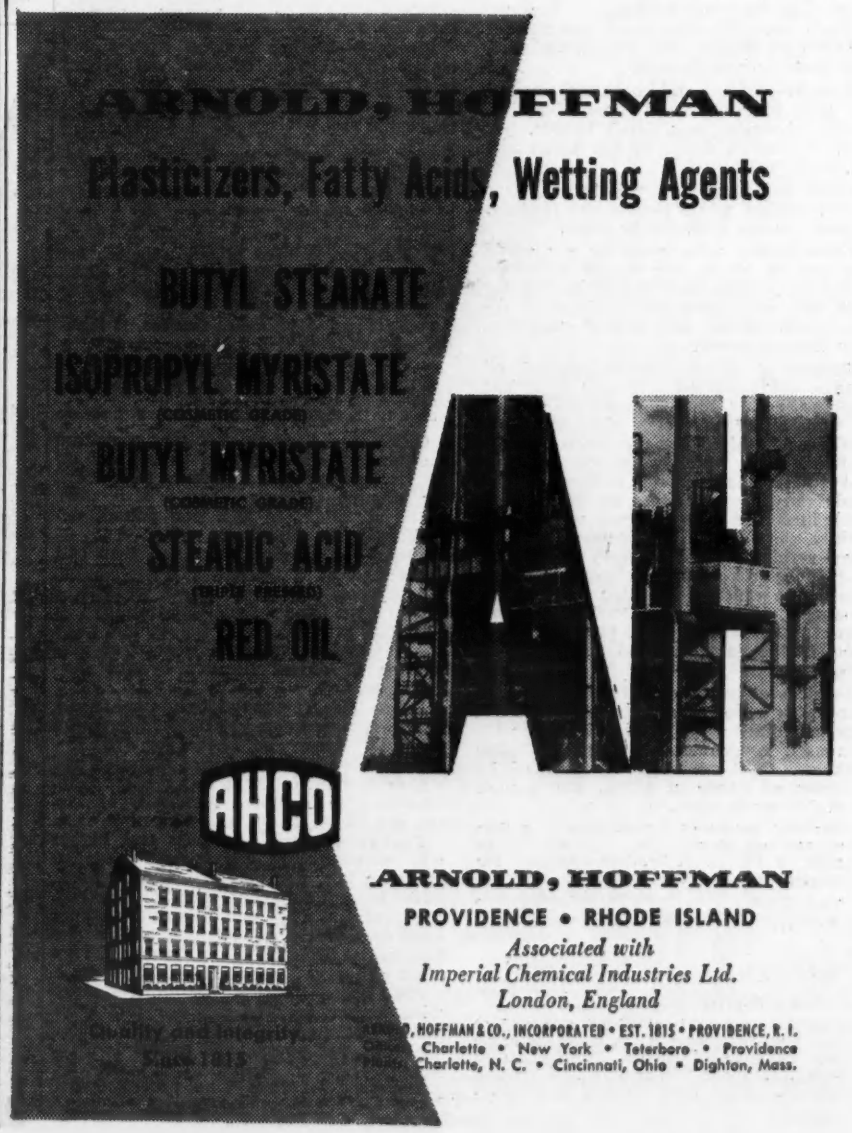

ums. Buying interest was more active for prompt requirements.

Cake and Meal

Cottonseed Meal—Commodity Credit Corporations reduced prices of government owned cottonseed meal $10 per ton in bulk and solvent meal, $11.50 per ton below ceilings in the New Orleans, Dallas and San Francisco areas in the last ten days. The department stated this action was taken to get rid of its meal holdings before the hot weather set in, when there is danger of considerable spoilage. As of March 9 the government's inventory of cottonseed meal totaled 104,000 tons. Demand was still slow, principally due to generally slow feed business and competitive soybean meal prices in most consuming areas. Government owned 41 percent meal was quoted at $75 per ton, in the Mississippi Valley region; $71, Alabama; $72, Georgia; $73, South Carolina and North Carolina, plus the cost of bags, which is $3.50 to $4.50 per ton. Stocks of meal stored by the government is all sacked. The 36 percent meal was $5 per ton less than 41 percent.

Linseed Meal—Business continued slow. Prices were easy and lower.

Minneapolis—There was very little new business in linseed meal the past week and the market showed no sign of improvement. Processor prices were down $1 to $2 from the preceding week as resellers continued to exert pressure. Extracted linseed meal, 36 percent protein, was quoted in a range of $69 to $71 a ton, bulk, in carlots, f.o.b., Minneapolis. Expeller meal, was priced around $73 to $74 a ton, bulk. Crushers continued to press for directions on maturing contracts but there was no improvement over recent weeks.

Shipments of linseed meal, in pounds, were as follows:—

	1952-53	1951-52
Past week	7,500,000	9,780,000
Since Sept. 1	357,560,000	342,260,000

Peanut Feed—Small stocks of peanut feed in the Southeast continued in light demand. Forty-five percent solvent feed sacked was offered at $72 per ton, f.o.b. South Alabama and 45 percent old process at $77, f.o.b. South Georgia, March shipment. Supplies are small and demand limited.

Soybean Meal—Buyers of soybean meal for several months have been very cautious, and operated on a hand-to-mouth basis, thus the amount of meal sold ahead is unusually small. Mixed feed business is only fairly good for poultry feeds and mixers report poor business for other types of feeds. Soybean crushers are trying to hold prices; nevertheless, bids continue in the market under offered prices. Forty-four percent bulk was quoted at $66.50 to $67.50 per ton Decatur, March shipment; $72 April-September, and at $70, basis West Tennessee and Mississippi Valley mills, March shipment. Supplies are plentiful. The government lifted controls on soybean meal last week.

Waxes

Beeswax—Moderate volume of sales were reported for refined grades, chiefly for actual needs. Prices were maintained at former levels. Crudes were unchanged and fairly steady. African was held at 45c. to 46c. and Central America, 56c. to 57c.

Carnauba—Clearance of distressed lots improved the tone of this market for most grades, except yellow No. 1, which was off 1c. per pound. Other grades were unchanged and steadier. This resulted in increased inquiry from consumers. No. 3 crude was held at 96c. to 97c. per pound and refined ranged from 99c. to $1.02 per pound, depending upon quality and quantity. No. 1, yellow was easier, due to increased offerings and declined to $1.29 to $1.31 per pound, as to quantity. Chalky and No. 2, North country were scarce and merely nominal.

Ouricury—Trading in refined was more active and several round lots were moved at 67c. per pound. Spot delivery was quoted at 68c. to 69c. per pound, as to quantity.

Spencer Kellogg Appoints Peterson Head of New Unit

Spencer Kellogg & Sons, Inc., Buffalo, N. Y., has announced the appointment of Robert E. Peterson as manager of its new oilseed meals division. The division was formed by a consolidation of the former linseed oil meal and soybean oil meal departments. Mr. Peterson formerly was manager of the latter.

Miel Enters New Field

The George A. Miel Company, Lyndhurst, N. J., has announced that it intends to enter the field of specialty compounds for the carbon paper industry and has engaged Dr. C. Meyer, who has devoted his career to this activity in Germany and Canada.

Wurster & Sanger Gets Extraction Plants Rights

Wurster & Sanger, Inc., Chicago, recently obtained certain foreign rights from the inventors covering the issuance of licenses and supply of solvent extraction plants utilizing the filtration-extraction process developed at the Southern Regional Research Laboratories, New Orleans, La. Foreign patent applications are being filed covering the use of this process for all vegetable oil bearing materials. Prior to this, the firm was granted a license by the Department of Agriculture covering the use of the process in the United States for cottonseed.

Olive Oil Packaging Bids Asked By USDA for Lunch Program

The Department of Agriculture has invited bids for packaging about 150,000 gallons of government-owned olive oil in one-gallon metal containers for the school lunch program. The bids will be received under announcement No. FO-24/53 up to 5 p.m. March 25 by the program operations division, fats and oils branch, PMA, Washington 25, D. C.

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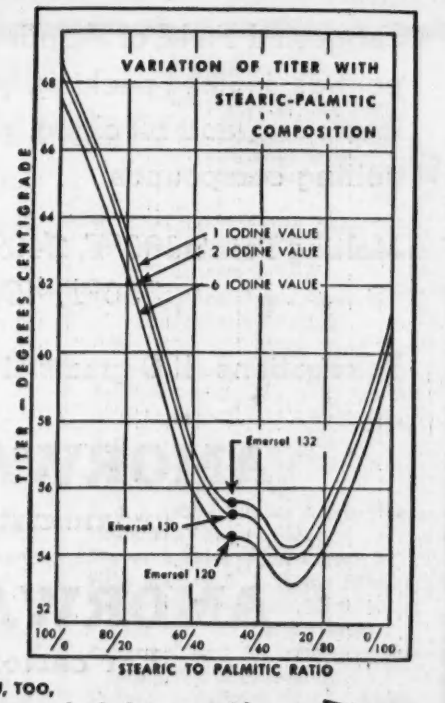

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NACA Told Pesticides Outlook Bleak This Year

—Continued from page 5

insecticidal controls, most of them still remarkably effective, will continue to help farmers give this nation the bumper crops of food, feed, and fiber so necessary to the present high standard of living." He stated that neither the scientists nor chemical manufacturers have the answer now.

The BEPQ official emphasized that the bureau has been "undergoing a shrinking process" for some years. "It is smaller today," he said, "from the standpoint of manpower than in 1932."

He explained that entomological problems have become more complex than ever before and have a way of becoming acute almost overnight. "Pressure for their solution is intense—and usually quite vocal," he said. He described the pink bollworm as "the most serious threat since the appearance of the boll weevil." Referring to the continued spread of the pink bollworm, he said that "the bollworm becomes even worse than the weevil sometimes."

Importance of Transport Costs

Too many manufacturers do not realize that there is a vacant chair at their executive meetings which should be filled by a transportation executive, according to E. C. McClintic, vice-president in charge of traffic for the Pure Carbonic Company of New York, New York. Mr. McClintic said that "the supervision of transportation service demands the constant attention of a specialist" and that "a well-organized industrial traffic department can be an important factor in lowering production costs and increasing sales."

He advised the manufacturers of insecticides, fungicides, and weed killers that transportation has never been so complex since interstate commerce laws were enacted in 1887. He pointed out that a good traffic department can help widen a company's markets and open up new resources for raw materials. The traffic specialist asserted that "it has been proven many times that transportation is the third largest item of expenditures—raw materials coming first, labor second, and then transportation third."

Examples of Savings

Mr. McClintic gave many examples of how a good traffic department can save money. "In many instances," he said, "two or three miles' difference of location in a rail rate territory might save possibly from 10 to 15 percent on rail or truck rates." He explained how this could come about due to the fact that carriers have three main specific territories which are divided into sub-territories. The official territory, according to Mr. McClintic, is the area roughly east of Chicago, St. Louis, and Memphis, and north of the Ohio River, whereas the southern territory is east of the Mississippi and south of the Ohio River. The western and southwestern territories are west of the Mississippi.

Mr. McClintic advised that companies should take into consideration the 15 percent surcharge on the present rates plus a federal tax of 3 percent. In reference to chemicals used for agricultural pest control, he said that "the total claims (truck and rail) for insecticide products in 1951 amounted to $19,800 in round figures. In 1952 these figures increased to approximately $26,000 which I believe has been due to the various higher priced articles." In his opinion these claims were negligible and he pointed out "there has not been one complaint from the carriers that the article damaged was not in an Interstate Commerce Commission regulation package."

Forest Insect Menace

Epidemics of the pine bark beetle and a pine defoliator have resulted in the killing of trees or a growth loss amounting to at least 140,000,000 board feet of southern timber valued at about $4,200,000, R. J. Kowal, of BEPQ's Gulfport, Miss., laboratory, told association members. He said that "recent epidemics have pointed up the importance of forest insects and the great need for research," adding that little fundamental research has been conducted on the important forest insects occurring in the south.

Mr. Kowal gave several examples of insects attacking forests which are reducing the production of the lumber industry. "The loblolly pine sawfly in Arkansas," he pointed out, "through its defoliating activity caused a growth loss of 20,000,000 board feet in 1947, the peak year of an epidemic; substantial losses took place for several years before and after that year." He stated that tests have revealed that DDT applied by aircraft will effectively control the larvae and that it has been used successfully on a commercial scale in Louisiana. He emphasized, however, that the possible value of other chemicals has never been investigated "nor has the possibility of control, through biological means or through management practices, been given attention."

Southern Pine Beetle

He described the southern pine beetle as "the most destructive bark beetle in the south" and warned that the pest has been on the incline in recent years. He said that one large epidemic in east Texas killed 85,000,000 board feet of sawed timber in 1950 and 1951, and one epidemic in southern Mississippi killed 30,000,000 board feet in 1952. Another pest, the black turpentine beetle, according to Mr. Kowal, has increased to the proportion of a "primary killer of pines." He stated that "in the past three years it has killed at least 8,000,000 board feet of timber in Texas, Louisiana, and Mississippi in known outbreaks."

According to H. R. Johnston, also of the Gulfport laboratory, benzene hexachloride, when applied at the rate of one and three-quarters gamma isomer per fifty gallons of fuel oil, is effective in preventing attack by ambrosia beetles, bark beetles, and wood borers on green hardwood logs and lumber and on pine logs. "To obtain best results from chemical treatment," he emphasized, "logs should be stacked as high as it is possible to spray them and in long, continuous rows."

Weed Control in Cotton

Phenomenal yields of 2,500 to 3,000 pounds of cotton seed per acre have been made without putting a plow or a hoe in the field, Dr. Eugene Butler, editor of the *Progressive Farmer*, told NACA. According to Dr. Butler, "some farmers have saved from $10 to $20 an acre by chemical weed control over the hand hoeing and ordinary cultivation."

He described the lack of adequate weed control in cotton as "the strongest barrier of complete cotton mechanization." "In some sections of the south," he continued, "it requires about 100 man hours of labor per acre to grow cotton and about half of this is for hand-hoeing." He said that chemical weed control is still in the nature of a supplement rather than a substitute for cultivation, however.

He warned that the use of herbicides in cotton carries more risk than the use of other agricultural chemicals and that the grower "must prepare himself with information on materials, equipment and know-how before trying it."

Dr. Butler noted, however, that about 300,000 acres of cotton were treated with herbicides in 1952 as compared with 5,000 acres in 1947, and practically none in 1940.

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THE BRODE CORPORATION
P. O. Box 700 1012 Falls Building
MEMPHIS, TENNESSEE

You Buy with Confidence When You Deal with an AAA-1 Rated and Old Established Company.

OUR 36th YEAR

VISIT OUR WAREHOUSE
331 DOREMUS AVE.
NEWARK 5, N. J.

1—12,000 lb. horizontal dry MIXER.
1—D 10, 1250 lb.: 600#, 400#.
1—Patterson Fdry 500 gal. Steel Jack., agitated Closed Kettle.
3—Oliver Vacuum Filters, incl. 6' x 6' acid proof, 8' x 12', 11'6" x 14', 11'6" x 18'.
8—Shriver 42" x 42", Cast Iron Filter Presses, Plate and Frame, 18, 27, 36, 54 chambers, 1" cake.
1—Aluminum Sperry Filter Press, 30" x 30", 45 chambers, 1" cake.
1—Shriver 30" x 30", jacketed, cast iron, Filter Press, 20 chambers, 1".
15—Sperry 18" x 18", C. I., Plate and Frame, Filter Presses, 11 chambers.
1—20 gal. B. P. jacketed Mixer, double sigma blades, m.d.
2—Day size 82 Roball Sifters, m.d., 40"x120" screens; 1—Rotex, 20"x48".
2—Glen 340 qt. Mixers.
6—Dopp c.i., Kettles, 80, 150, 600 gal.
1—A.T. & M. Co. 18" susp. Centrifugal, Steel Basket, bott. disch., unloader.
1—Ross #30 Mammoth 50 gal. change can mixer, m.d.; 1—Day 40 gal., m.d.

1—Patterson Stainless 110 gal. Vacuum Mixer, Sigma Blades.

PRICE-SAVING OPPORTUNITIES

FILTERS: 2—#12 Sweetland Filters for 36 leaves on 4" c/c.
1—4'6"x6' Feinc, String Discharge.
ROTARY KILNS AND DRYERS: 2-7'x60' Calciners, made by Struthers Wells. Each 9/16" shell, Timken roller bearing supports, F-B gear reducer, with V-belted AC motor, firing hood, seal ring, one with Manitowoc Recuperator, in excellent condition.
2—6' x 60' Vulcan Iron Works, complete; each with or without 3' x 50' Rotary Cooler. By installing lifting flights these Kilns would make excellent heavy duty dryers.
1—6'6" I.D. x 12' Rotary Nodulizer or Furnace, ⅜" shell, Timken roller bearing rolls, gear reducer and motor drive, scraper conveyor, feeder, etc.
1—7'6" x 125'; 1—8' x 135' Allis Chalmers.
4—Ruggles-Coles Direct Heat Rotary Dryers—Class XF4—54" x 25', one Class XF 5' x 40'. Also three 3' x 50'; 5' x 30'; 5' x 50'; 6' x 40'; 6' x 60'; 7' x 70'. 1—8' x 54', Struthers Wells, with Timken roller bearing supports, L-B gear reducer, 40 HP motor, furnace, Coen burner, etc.
5—Link Belt Roto-Louvre Dryers: #207-10 (2'x7"x10'), #310-16, #604-20, two #604-24.
4—6' x 50' Louisville Rotary Steam Tube Dryers.
MISCELLANEOUS: 8—Pebble Mills, porcelain-lined, 5' dia. x 4'; 1—5' x 6'; 6' x 8', 800 gals. each.
4—Traylor Tube Mills, silex-lined, 4' x 13', 4'6" x 18'6", 5' x 22' and 5' x 20'. Also 2—5'6" x 20', iron lined, m.d.
4—Devine #28 Vacuum Shelf Dryers, each 20 shelves 59" x 78", each with condenser & pump.

MUST MOVE QUICKLY

2—Pneumatic Scale Packaging Units, incl. auto. feeders, sealers, 5-drop weighers, liners, compression belts. Still set up in metropolitan area. Arrange to inspect.

MONEY-SAVING ITEMS

5—J. H. Day, type B, 14" x 30", 3 roll Roller Mills, roller bearings, water cooled, chain drive. High speed.
1—Quadruple Effect Evaporator, calandria type, brass tubes, 14,000 sq. ft. H.S.; excellent condition; still erected; complete with piping, etc.
1—6' x 14' Hardinge Rotary Counter Current Classifier, also for dewatering or scrubbing.
1—Davenport #3A Dewaterer.
1—Mechanical Cooker, 5' x 16'.
4—Buffalo Atmo. dbl. drum Dryers, 32" x 72", 32" x 90", 42" x 120".
1—Raymond 5 roll High Side Mill.
3—Anco 4' x 9' Chilling Rolls.
3—Laboratory Roller Mills, 8"x12", 6"x14".
1—2000 gal. rubber-lined horiz. Tank.
1—Rotap Testing Screen.
4—Mojonnier S/S Vac. Pans, 3', 4', 5', 6'.
36—S/S Jacketed Kettles, up to 1000 gal., some agitated.
17—S/S Vert. & Horiz., open & closed Storage Tanks, up to 2000 gal.

DO YOU HAVE IDLE MACHINES or PLANTS FOR SALE? SEND US YOUR LIST.

CONSOLIDATED PRODUCTS CO., INC.

13-18 PARK ROW, NEW YORK 38, N.Y.
BArclay 7-0600 CABLE ADDRESS EQUIPMENT, N.Y.

OLDEST AND LARGEST DEALER IN REBUILT PROCESSING EQUIPMENT

Cast Your Eyes Over These BRILL Buys!
Outstanding Selections Backed by Our Quarter Century of Service and Dependability!

PARTIAL LIST OF VALUES — SEND FOR NEWS FLASH!

1—Devine #27 Double Door Vacuum Shelf Dryers, 17—59" x 78" shelves.
4—Devine Vacuum Shelf Dryers, 20, 8, 6 and 4—40" x 43" shelves.
2—Stokes 30" x 8', 3' x 15' Rotary Vacuum Dryers.
1—Hersey 18" x 9' SS Hot Air Rotary Dryer.
1—Link Belt Monel 2'7" x 8' Roto-Louvre Dryer.
1—Vulcan 4¼' x 50' Rotary Dryer, ⅜" shell.
2—1400 gal., 1000 gal., closed, SS jacketed Kettles.
1—1600 gal. closed, SS Storage Tank.
2—Oliver 8' x 10' Monel Rotary Vacuum Filters.
2—Oliver 5'3" x 3' Enclosed Precoat Filters.
1—Fletcher 48" Suspended Centrifugal, aluminum perforated basket, motor driven.
1—Tolhurst 32" Suspended Centrifugals, Monel perforated baskets, motor driven.
1—Bird 24" x 38" steel solid bowl continuous Centrifuge.
3—Buflovak 6' diameter Atmospheric and Vacuum Crystallizers.
1—Hardinge 4½' x 16" Conical Steel Lined Ball Mill.
4—Oliver 3' x 1', 4' x 5', 8' x 12', 11'6" x 14' Rotary Vacuum Filters.
3—#7 Sweetland Filters with 27 leaves on 3" centers.
4—Shriver 30" x 30" C.I. Filter Presses, P&F, 30 chambers, open delivery, washing.
4—Sperry 24" x 24" C.I. Filter Presses, P&F, 16 chambers, closed delivery.
1—Sperry 24" x 24" Aluminum Filter Press, P&F, 22 chambers, open delivery.
4—Green 150, 125 gal. SS, jacketed, agitated Kettles.
1—Blickman 25 gal. SS jacketed Still with refulux condenser.

CHECK THESE SPECIALS!

1—Baker Perkins 35 gal., SS double arm, jacketed Mixer, sigma blades.
1—Ruggles Cole 5' x 30' double shell Rotary Dryer.
1—Jeffrey 5' x 9' Monel Indirect Vibrating Hot Air Dryer.
2—Pfaudler 100 gal. glass-lined Stills with glass-lined Condensers and Receivers.
2—Sharples P-16 Monel pressuretite Centrifuges.
1—Tubular Heat Exchanger, SS, 225 sq. ft.
1—Bird 18" x 28" steel, solid bowl, Continuous Centrifuge.
2—Baker Perkins 100, 50 gal. double arm, jacketed Mixers, sigma blades.
1—Steel Tank 10' x 80', welded ASME, 50# pressure.
2—Raymond 4 roll, high side Mills.
1—Robinson 40" x 104" four deck Sifter.
1—Vertical Steel Storage Tank 30' x 26', 135,000 gals.
1—Link Belt Rote-Louvre Dryer, 3'10" x 16' SS, New.
1—Mikro Pulverizer #2TH SS, 15 HP motor.

BE BRILL EQUIPMENT COMPANY
A SINGLE ITEM OR A COMPLETE PLANT

BRILL FILLS THE BILL! Write, wire or phone us for complete information

MODERN REBUILT & GUARANTEED MACHINERY

UNION Rebuilt Machinery Established 1912

At Great Savings

International Stainless Steel Straightline Vacuum Filler.
Capem C4F Rotary Capper.
Resina LC automatic Capper.
Kiefer Rotary Air Cleaner.
F. M. C. Kyler A adj. Wraparound Labeler.
Burt Wraparound Labeler.
Mikro 4TH, 3TH, 2TH, 1SH, Bantam (S.S. also) Pulverizers; Schutz O'Neill Mills.
Abbe #O Rotary Cutter.
Fitzpatrick S. S. "D" Comminuter.
W. & P. type 3500 gal. Steam Jacketed, Double Arm Mixer.
J. H. Day 8 gal. Pony Mixer.
Baker Perkins 150 gal. Unidor S. J. Double Arm Mixer.
Baker Perkins BB, W. & P. Readco Heavy Duty 50, 100, 150 gal. Double Arm Mixer.
F. J. Stokes, J. H. Day, New Era, Hottman Mixers from 2 to 450 gal., with and without Jackets, Single and Double Arm.
Day 650 gal. S. J. Jumbo Mixer.
Robinson 100, 800, 1500, 10,000 lbs. Dry Powder Mixers.
Colton Rotary Tablet Machine.
R. A. Jones "E" auto. Soap Press.
Allis Chalmers and Great Western V, C, Jumbo Sifters.
Copper, Aluminum and S. S. Steam Jacketed Kettles.
Huhn Steam Tubular and Gas-Fired Rotary Tubular Dryers.
Tri-Homo 5 Colloid Mill, 7½ HP.
N. E. Lehman 3 and 5 Roll Mills.
S. & S. A Transwrap Filler.
Stokes and Smith G1, G2, G6 Auger Powder Fillers.
S. & S. HG88 Duplex Auger Filler.
Horix S. S. Rotary Filler.
Stokes 2 Tube Filler, Closer.
Filler 4-Head S. S. Piston Filler.
Ceco and Jones auto. Cartoners.
Knapp No. 429 Carton Sealer.
Pony ML and M Labelrites; Ermold, World Labelers.
Shriver (Jacketed also), Alsop, Sweetland, Sparkler Filters.
Oliver automatic adjustable Wrapper for wrapping in kraft and cellophane.
Hudson Sharp Campbell automatic cellophane Wrapper.
Package Machy. FA, CA2 and DF automatic Wrappers.
Hayssen 3-7, 8-18, 7-13, Scandia and Miller auto. Wrappers.

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UNION STANDARD EQUIPMENT CO.
318-322 Lafayette Street New York 12, N. Y.

JUST PURCHASED

140 Stainless Steel Flanged Gate Valves, 1", 1½", 2", 3".

6000 ft. Stainless Steel Tubing, T304, 16 gal., 1½" and 2" OD, 6–1/3" lengths.

15—Jeffrey Vibrating Feeders #1B.

2—Tyler Hummer Screens, 3-deck, 4' x 5'.

1—Stainless Steel Pressure Vessel, 600# WP, T304, 18" dia. x 9'4" L.

1—Buflovak Double Drum Dryer, 24" x 36".

1—1,250 gal. Vertical Closed Stainless Steel Tank with coils and agitator.

1—450 gal. Stainless Steel Jacketed Agitated Kettle.

1—Acme #8½A Jaw Crusher, 9 x 16 opening; 20 HP motor.

1—250 gal. Aluminum Jacketed Agitator Kettle.

1—1,500 gal. Steel Jacketed Vacuum Kettle.

PLANT LIQUIDATION

We have purchased for liquidation, the equipment of the Patrick Henry Brewery, Marion, Indiana. We can offer excellent bargains in grain handling equipment, filters, ammonia compressors, cookers, pumps, etc. Also 60 welded steel tanks from 3,500 gal. to 12,500 gal. sizes.

This equipment is priced to sell and we recommend your early investigation.

FOR SALE FROM STOCK

8—15,000 gal. Vertical Welded Steel Closed Fermenting Tanks, 80 lb. W.P. turbine agitator with 40 HP motor, 970 lin. ft. 3" pipe coil. Excellent condition.

8—3,000 gal. Horizontal Stainless Steel Tanks, insulated and agitated.

40—Stainless Steel Tanks—30, 60, 100, 150, 200, 300, 500, 1,000, 1,250, 3,000, 4,200, 5,700 gal.

35—Aluminum Tanks, closed, 4, 275, 330 480, 500, 1,350, 1,450 and 9,000 gal.

50—Stainless Steel and Stainless Clad Steam Jacketed Kettles—10, 40, 60, 80, 100, 150, 200, 500 gal.

1—6-gal. Nickel autoclave, 1,500# T.P., agitated.

1—2½ gal. Stainless Steel Reactor Tank with agitator.

4—Aluminum Reaction Kettles, Jktd. and Agit., 35, 60, 100 & 250 gal.

1—Stainless Steel T316 Packed Column, 2' dia. x 6'8" H.

6—Stainless Steel Heat Exchangers, 400, 330, 190, 40 & 8½ sq. ft.

1—Ball & Jewell #1½ Rotary Cutter, stainless steel.

6—Mikro Pulverizers #1-SH, #1-SI, #2-SI, #2-TH and 24" TH.

2—Bird 48" dia. Suspended Centrifugals Stainless Steel Perforated Basket, Plow, Bottom Discharge, 15 H.P. motor.

1—Fletcher 30" Jr. Centrifugal T304 S.S., solid basket.

4—DeLaval Centrifugal Oil Purifiers, models 600, 74-11 and 94-01.

PERRY EQUIPMENT CORP.
1407 N. SIXTH STREET · PHILADELPHIA 22, PA.

STAINLESS STEEL EQUIPMENT FABRICATED TO ORDER— SPIRAL MIXERS - CODED VESSELS TANKS, ETC.

SPECIALS

2—Condensers 370 Sq. Ft. Ea. Stainless Steel.
1—Tolhurst 48" S.S. Center Slung Centrifuge.
2—Bird 48" S.S. Sus. Style Centrifuges.
1—Buflovak 6' Jack. & Vac. Crystallizer.
1—Devine 13 Shelf Vac. Dryer 40"x43".
1—Stokes 138 Vac. 6 Shelf Dryer 24"x36".
1—Sweetland #12 Filter 72 Leaves.
1—Sperry 24" C.I. Filter Press 13 Ch. 50 Ton Seco Closure.
2—Sperry 36" C.I. Presses, Hyd. Closures.
8—Stainless Kettles 100 to 950 Gals. Ag.
3—Dopp C. I. Kettles, 40, 250 & 650 Gals.
1—Mikro SH Bantam S.S. Pulv.
2—Rotex Screens 40"x60" & 40"x120".

We Buy Single Items to Complete Plants. Send for Complete Listings

The Machinery and Equipment Corp.
533 WEST BROADWAY
New York 12, N. Y. GRamercy 5-6680

SPECIAL
5'x15' Rotary Kiln, Brick Lined, Complete.

DRYERS AND KILNS

Devine #12 Vac. Shelf Dryer, 40"x42".
2—Allbr. Nell 4'x9 Atmos Drum Dryers.
1—Proctor & Schwartz 6 fan automatic 3 apron Conveyor Dryer.
1—Buffalo Vac. Drum Dryer, 24"x20".
Gehnrich Gas Fired Dryer. 12 trays. 21"x32"
6—Steam. gas & elect. Dryers.
8—Rotary Dryers Direct & Indirect Also Jacketed & Steam Tube
New Rotary Dryers. Kilns and Coolers

CENTRIFUGALS AND CENTRIFUGES

6—Tolhurst 40" Suspended Type Centrifugals. Bottom Discharge.
8—Centrifugals, 20", 26" 30" 40" & 48", Steel, Copper Stainless & Rubber
11—Sharples No. 5A Stainless Centrifuges. 2 HP. Also No. 6.
2—De Laval Multi Clarifiers. 300 & 301.

FILTERS

1—Vallez Filter #49 with 41 Stainless covered 44½" dia. leaves.
10—Sperry and Shriver, 12", 18" 24", 30", & 36" iron Filter Presses.
Sweetland & Oliver Vac. Filters.

KETTLES AND TANKS

2—Pfaudler 500 gal. vert. Glass Lined Tanks.
Dopp 350 gal. agit. Jack. C. I. Vac. Kettle.
Devine 36" dia. Impregnating Unit; Jacketed. Liquor & Impregnating Kettle.
100 gal. Jack. Impregnating Kettle.
500 & 1,000 gal. closed Jack. Steel Kettles.
2300 gal vert. agit. Jack. Steel Kettle.
1—Vert. agit. Jack. 600 gal. Kettle.
600 gal. vert. agit. Jack. Steel Kettle.
8—Jack Kettles, 50 to 2500 gals.
1—250 gal. Lead lined Kettle.
Stainless, alum., Copper, Glass Lined, Lead Lined Kettles and Tanks.
New Stainless Tanks. 50 to 500 gals.
4—Steel welded horiz. Tanks. 10,000 & 5,000 gals.
Copper Varnish Kettles. 150 to 300 gals.

PULVERIZERS AND MILLS

2—Abbe Pebble Mills, 24"x33". Also Jar Mills.
#1 Raymond Autom. Pulverizer, 20 HP.
1#00 Raymond Mill 30 H.P., complete.
2—#0000 Raymond Mills.
Hammer Mills & Pulverizers, to 50 HP.
1—Sturtevant 42" Rock Emery Mill.
1—Robinson 22" B.B. Attrition Mill.
1—Lehman 4 roll WC., 12"x36" Steel Mill.
4—Lehman & Kent 3 Roll Steel Mills. 8"x22" 9"x32", 12"x30", 16"x40".
1—Monarch 9"x24" Steel Roller Mill. 3 pr. high. Also 7½x20, 4 Roll.
1—9"x24" 3 Pr. High Steel Roller Mill.
Houchin 18"x36" 4 Roll Granite Stone Mills.
2—U. S. & Premier 1½ H.P. Colloid Mills.

MIXERS, SIFTERS & SCREENS

Baker Perkins double arm Mixers. 100, 50 & 9 gals. Also single arm Mixers.
Century 40 & 80 qt. vert. 4 speed Mixer.
Tyler 3'x3' Vibratory 2 deck Screen.
Patterson 3½' dia. Stainless Conical Blender.
1—Master Drum type 1000# Blender.
10—Dry Powder Mixers. 50 to 2,000 lbs.
Day 15 gal. Pony Mixers.
15—Portable Elec. Mixers, ¼ to 2 HP.
6—Lead and Paste Mixers, to 150 gals.

MISC. AND SPECIALS

2—Buffalo 6' dia. Vac. crystallizers.
4—Stokes & Colton Rotary and Single Punch Tablet Machines, ½ to 3".
4—French Oil Motor Driven Expellers.
1—Stokes 2E Paste Filler.
3—Stokes and Day Powder Fillers. Filling Machines, liquid paste, powder.
Elgin Capper, ½ H.P. Motor driven.
2—Howe Mogul barrel and bag packers.
2—Revolving Pans, 30" & 36".
1—Gould 75 HP 2 stage centrif. Pump.
4—Stokes Vertical High Vac. Pumps.
2—Worth 12"x12"x12" Vac. Pumps.
6—Devine & Buffalo Vac. Pumps.
Soap Machinery for Toilet, Laundry, etc. Centrif., Rotary, Duplex & Triplex Pumps, Boilers—Gas, Oil & Coal Water Stills.

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107 EIGHTH ST., BROOKLYN 15, N. Y.
STERLING 8-1944

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E—Evaporating Dishes, GL. L, 15 & 150 Gal.
Q—Quaker City Mill #C3½.
U—United Filter Sweetland #12.
I—IMP Mill Raymond—Standard.
P—Pebble Mill Abbe Eureka #5.
M—Mixer Rotary 5'x5' Type 347 stainless-steel.
E—Extractor, 26" A.T. & M. Rubber Covered.
N—New Steel and Stainless Ribbon Mixers.
T—Tablet Machines, R.B.L.—RD—RD4.
C—Copper Coating Pans.
L—Labeler New Pony Model 86ML.
E—Evaporators, Steel, 250 and 2,500 Gal.
A—Autoclave, steel, 10 gal., 500 PSI., Jktd., Agtd.
R—Reactor, 30 Gal. stainless-steel Condenser.
I—Intensive Mixer Simpson, 3' Pan.
N—New Stainless Tanks and Kettles.
G—Girdler Votator Model 61W.
H—Hottman Mixers, 6' 3000#, Jktd.
O—Oliver Continuous Filter 8'x14'.
U—U.S. Colloid Mill DBL Drive, 3 H.P.
S—Sifter Roball #31, Complete.
E—Extractor, 60", stainless-steel Basket.

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EQUIPMENT CLEARING HOUSE, INC.
289-10th ST., BKLYN 15, N. Y.

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Pebble Mills: 5 gal. to 250 gal.
Pulverizers: Micro SH, 1SI, 2TH.
3-roll Mills: Day 12x32" and 16x40".
Powder Mixer: Day. 66 cu. ft., jktd.
Clarifiers: Sharples Vaportite st. steel.
Centrifugals: 26" and 30" Tolhurst.
Mixer: Read dbl. arm, 380 gal., st. steel.
Disintegrator: Rietz 40 hp.
Clarifiers: De Laval 84-51, motor dr.
Filter: Oliver 3'x4', Everdur. con.
Vacuum Pan: Mojonnier 26" stainless steel.
Press: Davenport 3-A, Durimet con.
Mill: 12x24" Farrel-Birmingham. 25 hp.
Dryer: American 42x120" double drum.
Vacuum Pan: Stokes 25 gal st. steel, jacktd.
Powder Mixers: 100 to 2,000 lbs.
Filter Presses: 7" to 24", Sperry, Shriver.
Colloid Mills: Premier, Charlotte—st. steel.
Tanks: 3,000 gal. vert. dairy gl. lined jktd.

LOEB EQUIPMENT SUPPLY CO.
1925 W. North Ave. Chicago 22, Ill.

MILLS—Pebble, Lab., 30x33, 6x8, w/ motors.
TANKS—10000, 12000, 15000 gal.
CONVEYORS — New, 24", Troughing, w/motors.
HAMMER MILLS—Wms. LGI, Reg. #1, GA30, Raymond #1 w/cyclone.
CONVEYOR—New, 14" screw.
SCREENS—Tyler Hummer, 3x5, 1 & 3 deck Selectro, 18x48, w/motor.
FILTER PRESSES—24", 30", 36", 42". Some closed & washing.
JAW CRUSHERS — 8½x14½, 9x15, 18x36.
MIXERS—Portable, NEW.
GOOD COMBINATION — Family & Church.
MIXERS—Stokes, 13 gal., 100 cu. ft. Robinson Ribbon, New.
PUMP—Viking 4" w/motor (15 HP) & centrifugal to 650 gpm.
KETTLES — Aluminum, Jacket. & Ag., 250 gal.

LAWLER COMPANY
LAWLER PLACE, METUCHEN, N. J.
METUCHEN 6-0245

ME XTRA SPECIAL

4—OLIVER PRECOAT FILTERS

- 2—5'4"x8', with two slurry tanks, receiver, pumps, motors, drives, etc.
- 1—3'x6' vapor-tite explosion proof fitted.
- 1—8'x10' with receiver, vacuum pump, motors, etc.

Priced To Sell — Located in California

MACHINERY AND EQUIPMENT CO.
514 BRYANT STREET SAN FRANCISCO 7, CALIF.

CHEMICAL EQUIPMENT

CENTRIFUGES
24" Bird, type CH, SS.
40" Fletcher, type 304 SS.
40" Tolhurst, perforated.

DRYERS—MISC
30"x8' Stokes, Model 59AB, vacuum, rotary.
5'x6', Blaw-Knox, Drum, atmospheric.
24"x28' Proctor & Schwartz Conveyor.
Raymond Flash Dryer, complete.
6' x35' Louisville steam tube.

DUST COLLECTORS
4,488 sq. ft. Sly type 360.
2,244 sq. ft. Sly type 360.
3,900 CFM, Dracco, stainless steel.

EVAPORATORS
148 sq. ft. Buflovak, double effect, Monel.

FILTERS
8'x12' Feinc, rotary, vacuum.
8'x10' & 11'6"x18', Oliver.
No. 7 Sweetland, 172 sq. ft., 41 taps.
36" Shriver, C.I., 36 chambers.
12" Sperry, aluminum, 10 chambers.
5'x3', Monel, Feinc, complete (2).

HEAT EXCHANGERS
5740 sq. ft. Vogt, chrome-moly tubes.
1024 sq. ft. 8 pass, steel tubes & shell.
400 sq. ft., 2 pass, Admiralty tubes (NEW).

KILNS—COOLERS—DRYERS
7'x160'x⅜" (2).
7'x120'x⅜".
7'x60'x⅜".
5'6"x25'x9/16" Allis-Chalmers.
5'x30'x⅜" Ruggles Cole.
4'x60'x½".
4'6"x40'x⅜" Traylor.
3'x24' Monel.

MILL
Raymond 5 roll, high side, complete.

PUMPS
100 GPM @ 25' head, Monel (4).

REACTORS—ACID GLASS
400 gal. Pfaudler, ASME.
500 gal. Pfaudler, ASME.
2,000 gal. Pfaudler, type XXL, ASME (2).
2,000 gal. Pfaudler, type RL, ASME.

REACTORS—STAINLESS STEEL CLAD
3,000 gal. Jackt'd. ASME (NEW).

SCALES
Sacking Scale with Dustite Bag Holder (2).

SCREENS
3'x8' two deck, Kennedy.
3'x8' single deck, Kennedy.

STORAGE TANKS
3400 gal. 7'4"x10'x⅜" type 430 SS.
4100 gal. 5'x28'x¼".
6000 gal. 8'x15'x⅜" vert. ALUMINUM.
6500 gal. TANK CAR TANKS, 76"x28'.
8500 gal. 8'x23'x5/16" vert. (NEW).
12,000 gal. 8'x32'x¼" (NEW).
15,000 gal. 10'6"x23'x¼" (NEW).
135,000 gal. 30'x26' w/coils.
(We have facilities for building of new tanks. Send us your inquiries.)

PRESSURE VESSELS
1050 gal. 4'x12'x½" 106 PSI.
1200 gal. 42"x16'x5/16" ASME 125 PSI.
1250 gal. 4'x14' 106 PSI.
8200 gal. 8'x23'x2" 390 PSI (4).
16,000 gal. 96"x45'x¾" ASME 150 PSI.
30,000 gal. 10'x47' ASME 50 PSI.

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Heat and Power Co., inc.
70 PINE STREET HANOVER 2-4890 NEW YORK 5, N. Y.
Machinery & Equipment Merchants

FMC

A Rich Mine of Desirable Equipment Stake Your Claim!

5 Baker Perkins Double Sigma Arm Mixers serrated edges; 320 gal. holding; 200 gal. working; jacketed.
P. & S. Apron Type Conveyor Dryer; 8'x 78½'; 13 section with motors, drive, etc.
3 Vac. Shelf Dryers; 40"x42"; 3 to 20 shelves.
Baker Perkins S/S Lab. Double Sigma Arm Mixer; 12"x6¼"x10"; 2 HP XPL.
Day S/S Double Sigma Arm Mixer Jktd.; 13½"x11¾"x17½"; Vac. cover.
Robinson Unique S/S Powder Mixer and Sifter; 17"x30"x20"; 2 HP.
S/S Horizontal Tumbling Barrel Mixer; 5'x5'; baffled; with 3 HP.
Lancaster Muller Mixer; EAG4 compl.
Hammer Mills-Pulverizers by Mikro, Williams, JB, Raymond, Gruendler, etc.
Stainless Crusher; 2 S/S rotors 10" long with saw tooth cutters; 2 HP.
Buffalo and other Double Drum Dryers; 28"x60"; 42"x120"; 60"x120".
Twin Drum Dryers; 32"x72"; 32"x92".
Louisville and Davenport Tube Dryers.
Struthers Wells 55 Drum Dryers 5'x10'.
Buffalo Chrome Plated Drum 5'x10'.
Jacketed Crystallizers; 24"x21"x12'.
American Sterilizer; 32" dia. x 48".
Aluminum Column; Bubble Cap; 27½"x36' Stripping, Rectifying; 60 plates.
Type 347 S/S Bubble Cap Column; 16 sections; 8⅝"x19' high, complete.
Croll Reynolds Vac. Evaporator MONEL; 30"x5'; w steam jet Evactor.
Sharples Vaporite Super Centrifuge M84-21-IJY; Bowl 15000 RPM; 3 HP.
Sharples SS Super-D-Canter PY-14 vapor tite; brand new condition.
Bird Rubber Covered 48" Centrifuge with 40 HP motor.
SS Bird Young Rot. Vac. Filters 4'x4' with accessories.
Shriver 36" Rub. Cov. Filter Press.
Stainless Alsop Filters; 1800 sq. in.
Pfaudler Glass Lined 25 gal. Still.
Pfaudler Gl. Lnd. 400 Gal. Reactor.
Stainless Reactors up to 500 gal.
Monel 250 Gal. Jktd. Agt. Reactor complete with accessories.
200 Gal. S.S. Jacketed Pasteurizer.
Stainless Flash Tank; 8'x6'.
Dopp C.I. 650 Gal. Jktd. Agt. Kettles.
New Buflovak 500 Gal. Steel Reactor agitated and Jacketed.
Stokes Tablet Presses; most models.
Porc. Lined Pebble Mills 8'x8'; 50 HP.
Ambrose Aut. Paint Can Fillers.
Single and Multi Effect Evaporators.
S/S Steam Jacketed Kettles or Tanks in all capacities, and types.
500 Gal. S/S Closed Top Jacketed Reactor; 6' diameter.
470 Gal. Type 316 S/S Jacketed Tank; 4'x5' with S/S Agit. 5 HP.
Two Type 316 S/S Closed Top Tanks; 150 and 200 gal. Agitated.
95 Gal. S/S Reactor 2'x4' with S/S Turbine Type Agitator.
30 Gal. Type 347 S/S Reactor; 18"x24" Agt. Jktd. with S/S Condenser.
S/S Hi Pressure Autoclave 3000 PSI; 10"x15"; Jacketed, Agitated.
S/S Flash Tank 8'x6'; with S/S Tube Bundle.
S/S Heat Exchanger Shells; 14½"x47"; 24"x 71"; closed heads.
2 Pfaudler S/S Jacketed STILLS; 13 gal. and 20 gal.
MONEL Agitated Reactor; 3'x4'; Agitated; with S/S Condenser and Receiver.
Pfaudler Glass Lined 400 Gal. REACTOR; 4'x4'.
400 Gal. Lead Lined Tank; 4'x4'; with manhole top.
800 Gal. Rubber Lined Tank; 7'x10'.
5250 Glass Lined Horizontal Tank; 8'x14'.
2200 S/S Horizontal Tank, oval; 69"x49"x 14½" insulated corp.
3500 S/S Horizontal Tank, oval; 6'x4"x22'; insulated; manhole.
Extra heavy duty S/S Tank; 4'6"x9'.
Type 316 Milton Roy Proportioning Pump S/S up to 7 GPM.
Waukesha Sanitary Pump Size No. 55; motorized.
2 Schleyer Type 316 S/S 1½" Pumps with 5 HP.

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GOOD USED EQUIPMENT
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FOR SALE

2—Meter Driven #251 Mikro Pulverizers. Practically Brand New.
1—Baker-Perkins 100 Gal. S.S. Mixer, double-arm, sigma blades, meter driven.
1—Day #2 75 Gal. Brighton Mixer.
5—Pebble Mills, 40 to 500 Gal.
10—Pony Mixers, 8, 15, and 40 Gal.
1—Eppenbach Stainless Steel Homo Mixer with a 7½ hp Explosion-Proof Motor.
HIGH SPEED Roller Mills, 9"x24" to 16"x40".
3—8" Premier Colloid Mills, watercooled.

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NEW AND GOOD-AS-NEW EQUIPMENT

#316 Stainless Steel Tanks, new, 100, 200 & 300 gal.
1—Stainless Tank #430 Chrome, vert., 7'x10' deep.
20—Jacketed Kettles—Stainless, Copper, Aluminum.
1—Day mixer, Steam Jacketed, 50 gal. Sigma Blade.
1—Robbins Vibrex 3x6 Vibrating Screen, single deck.
1—Copper Evaporator, steam jacketed, 8'1"x3'9".
63—New Pressure Cookers, 18"x18" & 24"x28".
50—Pumps—steam and electric.
1—New Glass Nash Centrifugal Pump, 160 gpm.
1—Jeffrey Vibrating Conveyor 15' lg, 12" wide.
1—Buflovak Jacketed Impregnating Tank 42"x52".
1—4x8 Sturtevant Jaw Crusher.
1—Ribbon type Mixer, steam jacketed.
1—Model 16 Sharples Stainless Steel Centrifuge.
3—New Drum Rollers.
1—A. F. Bartlett Hog Mill & 7½ H.P. Motor.
10—Tanks, 9'6"x30'—15,500 gal. each.
3—Stainless Steel Jacketed Filters.
2—Plate & Frame Filters 25"—open del.
4—Tanks 100,000 gals. each.
1—Shriver 18" Aluminum Filter 9-plates, 9-frames.
4—Stokes Rotary Tablet Machines RD4.
10—New Sharples Oil Purifiers.

SPECIAL:—1—#316 Stainless Reactor, 265 gals., cap. steam jacketed on bottom.
Mead Mill #2 with 7½ H.P. totally enclosed motor & Draver Feeder—like new.
Davenport Rotary Steam Tube Dryer, 6'x36', complete with Drive & Press—latest model.
Abbe Pebble & Tube Mill, 5'x22'—Burr-Stone Lined.

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Mills: Lehman 5 roll water cooled 12x32.
Paint Mixers: O&T, Kestner & Hecht, Day.
Paint Mills: Day, Lehman, etc., solid rolls.
Pwdr. Mixers: ribbon, tumbler, 50 to 3000#.
Dough Mixers: sgl. or dbl. arm, pl., jktd.
Fillers: powder, liquid, paste.
Kettles: stainless, steel—jktd., plain.
Labelers: spot, can—auto. semi.
Baker Perkins Mixers, style VIH, jktd., tilting, 100 gal. working capacity.

Highest class reconditioning—done in our own shops. We also purchase entire plants or single items.

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MARE CO.
Keep 'em rolling . . . not rusting

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Steel storage tanks and complete tank cars, 6,500 to 12,000 gallons capacities, coiled and non-coiled.

Marshall Railway Equipment
Corporation
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EQUIPMENT
for CHEMICAL AND ALLIED INDUSTRIES

1—Sweetland #2 Stainless Steel Filter, 12-16" Leaves, 28 sq. ft.

1—Baker Perkins Stainless Steel Jacketed Dispersion Mixer, 100 gal.

1—Readco Stainless Steel Jacketed Double Arm Sigma Blade Mixer, 225 gal.

1—J. H. Day Stainless Steel Jacketed Double Arm Mixer, Sigma Blades, 12 gal. with 5 HP Motor.

1—J. H. Day Jacketed Powder Mixer, 5000 lb.

1—Stokes Vacuum Shelf Dryer, Model 138H-12, 12 Shelves.

2—Stokes Rotary Vacuum Dryers, 2' x 6' & 30" x 15'.

3—Devine Vacuum Shelf Dryers, 9 & 5 Shelves.

2—Buflovak Double Door Vacuum Shelf Dryers, 20 Shelves each.

1—Vulcan Rotary Kiln, 7' x 120'.

1—Bolling Lab. 2-Roll Mill, 6" x 12".

1—Baker Perkins Stainless Steel Double Arm Jacketed Mixer, Sigma Blades, 9 gal. cap. with 10 HP Motor.

1—Thropp 2-Roll Mill, 10" x 24".

4—Stainless Steel Heat Exchangers, 45, 60 & 500 sq. ft.

1—Struthers Wells Hastelloy B Heat Exchanger, 450 sq. ft.

3—Vulcan Copper Condensers, 300 & 350 sq. ft.

1—Fletcher Stainless Steel Suspended Type Centrifuge, 40" Perforated Basket.

1—Tolhurst Steel Center Slung Centrifuge, 36" Perforated Basket.

1—Buffalo Steel Tank, 10,000 gal. cap., 125 PSI.

1—Glascote Glass-Lined Jacketed Vacuum Reactor, 1600 gals. cap.

1—Abbe #2 Master Rotary Cutter.

1—Ball & Jewell Stainless Steel #0 Rotary Cutter.

R. GELB & SONS, INC.
UNION, N. J. Est. 1886 Unionville 2-4900

Resources Conference

—Continued from page 7

"a conference that fully and fairly represents a cross-section of American vision and leadership."

"The forthcoming conference, as we now visualize it," Mr. Albright continued, "will re-examine the entire resource problem and seek to identify, and call public attention to, the leading issues involved. It will provide a forum for free discussion of the interests and viewpoints advanced by different groups. It will also endeaver to locate the areas where facts and analyses still are insufficient. In general, the focus in looking ahead will be 1975, to reduce the uncertainties of too theoretical speculation about a longer future.

Major Group to Be Represented

"This Midcentury Conference," Mr. Albright said, "will be unique in bringing together representatives of all major groups with a direct interest in the conservation and development of natural resources. Industry, agriculture, and labor groups, to which the extraction and use of raw materials is a means of livelihood, will sit down with the traditional conservation and recreation organizations and the private and public groups interested in long-range economic and social development. There will be no effort to commit the conference to any specific program, or to take a vote on policy issues. Instead, the aim is to concentrate on a manageable number of important questions or areas and to define areas of general agreement and areas where there still is significant disagreement.

In addition to Mr. Albright, a former director of the National Park Service, members of the board of directors are:—Edward J. Condon, vice-president of Sears Roebuck & Co., president of the Sears-Roebuck Foundation and former president of the Friends of the Land; Dr. Reuben C. Gustavson, chancellor of the University of Nebraska and former member of the board of governors of the Argonne National Laboratory for Atomic Energy; E. B. MacNaughton, formerly president of Reed College and of the First National Bank of Portland, Ore.; Leslie A. Miller, former Governor of Wyoming and chairman of the resources task force of the Hoover Commission; Fairfield Osborn, president of the Conservation Foundation; William S. Paley, chairman of the Board of the Columbia Broadcasting System and chairman of the President's Materials Policy Commission; Beardsley Ruml, consultant and former adviser of the National Resources Planning Board; Stanley Ruttenberg, director of education and research for the Congress of Industrial Organizations, and M. L. Wilson, former director of extension of the Department of Agriculture.

FILTERS AND FILTER PRESSES

2—#12 Sweetland filters hydraulically closed.
1—#5 Sweetland filter, hydraulically closed.
1—Sharples stainless steel Super-D-Canter with 15 HP explosion-proof motor.
1—Eimco 4'x1' closed vacuum type rotary filter, complete.
1—Bird-Young stainless steel, 4'x2' centrifugal filter.
1—Podbielniak Model 6070, 7½ HP explosion-proof motor, type 316 stainless steel.
1—Feine string discharge, 5'x3' monel filter.
2—Shriver 24" 4-eye closed delivery 24 chamber filter presses, cast iron.
1—Aluminum 24"x24" 14-chamber plate and frame 4-eye closed delivery filter press.
1—Shriver 18" bronze 14-chamber 4-eye closed delivery, washing type filter press.
10—Shriver Johnson & Sperry 18", 24", 32", 30" and 36" filter press skeletons.
1—Lot 30x30" plates and frames only, 2-eye, washing type 34-chambers.
15—Alsop, Kiefer, Ertel and Herman 12" to 18" disc filters, bronze and aluminum.

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Business Wants and Offers

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ALL CLASSIFIED ADVERTISEMENTS—$5.00, thirty-six words or less: 85c. for each additional six words or fraction.

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COPY DEADLINE—Wednesday Noon Preceding Date of Publication.

Send replies to ads with box numbers to
OIL, PAINT AND DRUG REPORTER
30 Church st., New York 7, N. Y.

AGENTS WANTED

Established paint raw materials manufacturer desires active sales representation in Detroit, Boston, Cincinnati, Louisville, St. Louis and Baltimore areas. Replies held confidential and should list present principals or lines handled. OPD 783.

EQUIPMENT OFFERED

Three Roll Mills; 100 to 10,000 pound Mixers, New or used, cheap, Paddle-Ribbon-Dough-Scoop-Tumbler types; 20 to 500 HP Boilers; Fillers; Crutchers; Wrappers; Labelers; Kettles, etc. I. E. Newman, 5602 Blackstone, Chicago, Ill.

Stokes High Vacuum Pumps 212C, unused, water-cooled, 100 cfm; V-drive. Satisfaction guaranteed. Only a few left. Price very reasonable, inspect. American Sales Co., 198-11 Hollis Avenue, Hollis 12, N. Y. HOllis 8-2900.

EQUIPMENT WANTED

Wanted—Used Laboratory soap milling machine with stone or steel rollers. OPD 781.

Wanted—55 gallon stainless steel tight head drums. New or used. Telephone: Rutherford 2-6159.

Chemical Equipment wanted for defense plant work including autoclave centrifuges, dryers, filters, kettles, mixers, pulverizers and tanks. Also interested in set-up plants, now operating or idle. Give full particulars in first letter for consideration. OPD 770.

FOR SALE

LARGE CHEMICAL PLANT
AT CURTIS BAY
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44 acres, deep water docks, B.-O. R.R. into plant, modern power plant (steam sold to adjacent industries), over 15,000,000 gallons of liquid storage space (Gov't lease), 230,000 square feet sprinkled masonry bldgs., administration bldg., laboratory, etc.

Built to produce alcohol and allied products—ideal for chemical manufacturing, marine terminal, liquid storage, terminal warehousing.

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1010 N. Charles St. Baltimore, Md. Phone Saratoga 3322

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CUSTOM REFINING FACILITIES . . .
- Distillation
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Drum Lots—Tank Cars

WANTED . . .
- All Types of Crude Mixtures
- By-Products, Residues, Wastes
- Contaminated Solvents

TRULAND CHEMICAL & ENGINEERING CO., INC.
Box 426, Union, N. J. UNionville 2-7360

EQUIPMENT WANTED

Wanted—Send us your list of surplus or idle machinery. Interested in large capacity dry & wet Mixers, Rotary and batch Dryers, Pulverizers, all kinds of Jacketed Kettles, Distilling apparatus, Filling and Packaging Units, Stainless steel and non-corrosive Tanks and Vessels. For 36 years we have been buying from single items to complete Plants—Consolidated Products Co., Inc., 13-18 Park Row, New York 38, N. Y.

Chemical Machinery wanted for replacement project. Can use several pressure vessels, centrifuges, rotary and vacuum dryers, filter presses, a continuous filter, chill roll dryer, steel and stainless steel tanks, mixing equipment packaging and wrapping units. Do you know of an assembled unit or operating plant? Please advise. OPD 769.

FACILITIES OFFERED

Custom Mixing, Grinding and Dispersion—Production time available on—Rotary Cutters—Colloid Mills—Explosion Proof Churns with attached filtering mediums. At your service the technical know-how and completely equipped control laboratory. Address Adhesive & Coating Specialties, Inc., Building No. 22, 410 Frelinghuysen Ave., Newark 5, N. J.

MATERIALS OFFERED

7% Zinc Tallate. Eighteen 55-gallon drums for spot delivery. Write for price and sample. OPD 784.

MATERIALS WANTED

Sell Now! Markets declining. Confidential services offered for disposal of raw material inventories, factory output, over-production; also by-products and residues; equipment. OPD 771.

POSITIONS OFFERED

Wanted—Experienced salesman to sell complete line of alkyd resins in metropolitan New York area. Must be aggressive and personable with proven record of past achievement. Salary or commission, which ever preferred. OPD 785.

Wanted — Experienced formulator to take charge of product applications laboratory for top raw materials supplier. Must have had practical experience in formulating paints, varnishes, enamels, trade sales, industrial and specification finishes. OPD 786.

Chemist acquainted with various casein glue and paint formulas, who has been in actual production of these products. A 50% partnership will be given the right man. OPD 765.

MANUFACTURER OF ORGANIC SYNTHETIC BULK PHARMACEUTICALS

with ample technical facilities and available grounds for expansion wishes to purchase or to merge with small to medium company working in a related field to enlarge line and volume of business.

References exchanged. Please reply to

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OIL, PAINT AND DRUG REPORTER
30 CHURCH STREET
NEW YORK 7, N. Y.

MIXING PROPELLERS
In All Sizes From 4" to 36" Inclusive
STEEL or STAINLESS
WRITE TO **CLEVELAND MIXER COMPANY**
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DRUM TUMBLER MIXER
SINGLE OR DOUBLE
For prices and information
WRITE TO THE CLEVELAND MIXER CO.
3232 West 33rd Street
Cleveland 9, Ohio

WANTED — RAW MATERIALS

Chemicals, Pharmaceuticals, Botanicals, Oils, Solvents, Pigments, Colors, Waxes, Essential Oils, Aromatics, etc.
Wastes — Residues — By-Products

Chemical Service Corporation
88 BEAVER ST., NEW YORK 5, N. Y.
HAnover 2-6970 EST 1925

POSITIONS WANTED

Chemical Engineer, age 33, 12 years diversified experience. Engineering, production, plant supervision: distillation, extraction, filtration, catalytic oxidation, centrifugal separation, crystallization water treatment, steam generation. Free to travel. West coast preferred, other locations considered. OPD 787.

REPRESENTATION OFFERED

American Alkyd Industries requires sales agents in the following locations: Atlanta, Birmington, Buffalo, Denver, Dallas, Houston, Indianapolis, Kansas City, Louisville, Memphis, Minneapolis, New Orleans, Maryland and Virginia, to sell: A complete line of synthetic resins at competitive prices. Write personal details and for further information to American Alkyd Industries, Carlstadt, New Jersey.

Current Prices

—Continued from page 35

Z

Zein, bgs., 30,000 lbs. lots, works	lb.	.38 -	—
1,000-lb. to 30,000-lb. lots, works	lb.	.40 -	—
smaller lots works	lb.	.43 -	—
Zinc acetate tech bbls. dms. works	lb.	.27 -	—
NF VIII, dms	lb.	.53 -	—
Borate, bgs. c.l., dlvd. E	lb.	.192 -	—
l.c.l., dlvd E	lb.	.202 -	—
Carbonate, tech., rubbermakers, bgs., c.l., works	lb.	.14½-	—
l.c.l., works	lb.	.15 -	—
Chloride, NF gran., dms	lb.	.42 -	—
precipitated powd., dms.	lb.	.26 -	—
solution, 50%, dms., c.l., works	100 lbs.	4.75 -	—
l.c.l., works	100 lbs.	5.35 -	—
tanks, works	100 lbs.	4.10 -	—
tech., fused, dms., c.l., works	100 lbs.	9.60 -	—
l.c.l., works	100 lbs.	10.00 -	—
gran., fib., dms., c.l., works	100 lbs.	10.60 -	—
l.c.l., works	100 lbs.	11.00 -	—
Chromate (see Yellow zinc).			
Cyanide, kgs., over 1,000 lbs., works	lb.	.523 -	—
under 1,000 lbs. works	lb.	.543 -	—
Dust, pigment, bbls., c.l., works	lb.	.15¼-	—
l.c.l., works	lb.	.16¼-	—
Fluoride bbls., works	lb.	.40 -	—
Hydrosulphite, dms., c.l., frt. alld.	lb.	.21½-	—
l.c.l.	lb.	.22 -	.37½
Iodide, NF, jars	lb.	4.92 -	—
Laurate bbls	lb.	.45 -	.46
Metal, slabs, E. St. Louis	lb.	.11 -	—
Naphthenate, liquid, 8% Zn, frt. alld.	lb.	.23½-	—
10% Zn. dms., frt. alld.	lb.	.28½-	—
Oleate, fused, bbls	lb.	.36 -	—
Oxide, pigment, American process lead-free, bgs., c.l., dlvd	lb.	.14 -	—
l.c.l., dlvd	lb.	.15 -	—
leaded 35%, bgs., c.l., dlvd.	lb.	.14½-	—
l.c.l., dlvd	lb.	.15½-	—
50%, bgs., c.l., dlvd.	lb.	.1435-	—
l.c.l., dlvd.	lb.	.1535-	—
French process, com'l green seal, bgs., c.l., dlvd.	lb.	.15¾-	—
l.c.l., dlvd	lb.	.16¾-	—
red seal, bgs., c.l., dlvd.	lb.	.15¼-	—
l.c.l., dlvd	lb.	.16¼-	—
white seal, bgs., c.l., dlvd.	lb.	.16¼-	—
l.c.l., dlvd	lb.	.17¼-	—
USP, ctns., c.l., dlvd	lb.	.17¼-	—
l.c.l., dlvd	lb.	.18¼-	—
Zinc oxide Pac. coast prices 1c. higher; bbl. prices ¼c higher than bgs.			
Phenosulphonate, NF, gran., dms.	lb.	.39 -	—
powd., dms	lb.	.43 -	.49
Resinate precip., dms., frt. alld.	lb.	.26¾-	—
Silicofluoride, bbls., works	lb.	.12 -	.13
Stearate, tech., USP, ctns., c.l.	lb.	.37 -	—
ton, lots	lb.	.36 -	—
less ton lots	lb.	.39 -	—
Sulphate cryst., 22% Zn, bgs., c.l., works, frt. alld.	100 lbs.	7.30 -	—
l.c.l. same basis	100 lbs.	7.70 -	—
flake, 25½%. Zn, bgs., c.l., works	100 lbs.	6.55 -	—
l.c.l., works	100 lbs.	6.90 -	—
powdered, 36% Zn, bgs., c.l., frt. alld.	100 lbs.	9.25 -	9.95
l.c.l., same basis	100 lbs.	10.00 -	10.70
Zinc sulphate in bbls., 40c higher.			
USP, gran., dms	lb.	.26 -	—
Sulphide, pure, bgs., c.l., dlvd.	lb.	.2530-	—
fluorescent, fib., dms., less than 1,000 lbs., works	lb.	1.75 -	1.90
phosphorescent fib., dms., less than 1,000 lb. lots, works.	lb.	1.85 -	2.50
Undecylenate, dms	lb.	2.25 -	2.50
Yellow (see Yellow, zinc).			
Zinc-ammonium chloride, bgs., c.l., works	100 lbs.	9.05 -	—
l.c.l., works	100 lbs.	9.45 -	—
Zinc-cadmium sulphide, fluorescent fib., dms., under 1,000 lbs., works.	lb.	2.10 -	2.90
Zinc-calcium resinate, dms., c.l., works	lb.	.1180-	.1360
l.c.l., same basis	lb.	.1220-	.1400
Zinc-formaldehyde sulphoxylate, basic, dms., c.l.	lb.	.25½-	—
l.c.l.	lb.	.26 -	.41½
normal, dms. l.c.l., works	lb.	.52 -	—
Zircon, (G), granular, bgs., c.l., works	lb.	.03½-	—
5 tons to c.l., works	lb.	.03⅝-	—
1 ton to 9,999 lbs., works	lb.	.03⅝-	—
500 lbs. to 1,999 lbs., works,	lb.	.04 -	—
less than 500 lbs., works	lb.	.06½-	—
milled, bgs., c.l., works	lb.	.04½-	—
5 tons to c.l., works	lb.	.04⅝-	—
1 ton to 9,999 lbs. works	lb.	.04⅝-	—
500 lbs., to 1,999 lbs., works.	lb.	.05 -	—
less than 500 lbs. works	lb.	.07½-	—
Zircon (G) in barrels, ¼c. higher.			
Zirconium acetate 13% sol ZrO_2, c.l., 30,000 lbs., minimum	works lb.	.23 -	—
Carbonate basic, cake bbls.,	works lb.	No prices.	
Hydride, ens., works	lb.	7.25	-11.50
Nitrate, dms. ex whse	cwt.	4.50 -	7.00
Oxide, 92½%-99%, white, grd., bbls., ur bgs., works	lb.	1.50 -	—
lump electric-fused, bgs., c.l., works	lb.	.44 -	—
5 tons, works	lb.	.44½-	—
1 ton to 9,999 lbs., works	lb.	.45 -	—
500 lbs. to 1,999 lbs., works	lb.	.45¼-	—
less than 500 lbs., works	lb.	.48 -	—
milled, electric-fused, bgs., c.l., works	lb.	.59 -	—
5 tons, works	lb.	.59½-	—
1 ton to 9,999 lbs., works	lb.	.60 -	—
500 lbs. to 1,999 lbs., works	lb.	.60½-	—
less than 500 lbs., works	lb.	.63 -	—
Oxychloride, cryst., ctns., 5 tons, works	lb.	.32¼-	—

FSA Status Rise Plan

—Continued from page 3

the administration of the vital health, education and social security functions now being carried on by giving them departmental rank. Such action is demanded by the importance and magnitude of these functions, which affect the well being of millions of our citizens."

Establishment of a department that would include health among its functions as well as education and other social activities, was first proposed by former President Hoover in 1932. The suggestions were revived again and gained a new importance in 1949 when the Hoover Commission again called attention to the need for such a department.

President Truman submitted a reorganization plan in 1950 that would establish the department, but congress turned down the idea because of the agitation at that time for socialized medicine and the thought that Oscar Ewing, then FSA administrator, would be named secretary of the department. Mr. Ewing was an outspoken advocate of compulsory health insurance.

Chemical Prices

—Continued from page 3

and the allied chemicals remaining under control at $250,000,000.

Curb on No. 2 Fuel Oil Lifted

In addition to the decontrol of chemicals, the order also removed the last remaining petroleum product—No. 2 heating oil—from price control and the few products that remained under the food and restaurant division. These included coffee and malt beverages and soybeans along with all animal feed products.

Decontrolled were soybean meal, cottonseed meal, linseed meal, distillers' and brewery by-product feeds, beet pulp, alfalfa products and formula feeds. These products have an annual sales value at retail of about $4,500,000,000. Also decontrolled were industrial syrups and molasses, liquid starch and dextrin and dextrose, which have been priced under the manufacturers ceiling price regulation, CPR-22.

The few products remaining under price control are items which price director Joseph H. Freehill described as being in areas critical to the defense production effort and which might be expected to have the most impact on prices and the defense economy.

Remaining under control are steel mill products, pig iron, ferro alloys, metals such as nickel, beryllium, manganese, tungsten, molybdenum, tantalum and columbium; steel shipping containers, metal cans, machine tools, parts and attachments and certain structural steel.

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Advertisers Index

Advance Solvents & Chemical Corp..... 80
Albemarle Paper Mfg. Co..... 68
American Agricultural Chemical Co..... 1
American Alcolac Corp..... 51
American British Chem. Supplies, Inc..... 57
American Cyanamid Co., Industrial Chemicals Div..... 10
American Key Products, Inc..... 51
American Lignite Products Co..... 74
Anderson-Prichard Oil Corp..... 79
Arnold-Hoffman & Co., Inc..... 72
Ashcraft-Wilkinson Co..... 28
Atlas Powder Co..... 18
Baird, J. M., Company 57
Baker, H. J., & Bro..... 72
Baker, J. T., Chemical Co..... 8
Barcan, Irving, Co..... 77
Barclay Chemical Co. 42
Barrett Division..... 48
Beacon Company..... 47
Belgameric, Inc..... 55
Berkshire Chemicals, Inc..... 57
Bersworth Chemical Co..... 35
Better Finishes & Coatings, Inc..... 40
Bios Laboratories, Inc..... 54
Bonewitz Laboratories, Inc..... 40
Borden Company, The..... 70
Bower, Henry, Chemical Mfg. Co..... 44
Bowman, Charles, & Co..... 56
Brill Equipment Co..... 75
Brode Corp., The..... 74
Calabrian Co., Inc., The..... 42
Capital City Products Co..... 73
Carbide & Carbon Chemicals Co., Div. Union Carbide & Carbon Corp..... 56
Celanese Corp. of America, Chemical Div. 16, 80
Chemical & Process Machinery Co..... 77
Chemical Service Corp..... 78
Chemical Solvents, C. P., Inc..... 80
Chemo-Puro Mfg. Corp..... 52
Chew, John A., Inc..... 43
Church & Dwight Co., Inc..... 38
Ciba Company..... 50
Cleveland Mixer Co..... 78
Columbia Southern Chemical Corp.....17, 38
Commercial Solvents Corp..... 12
Consolidated Chemical Industries, Inc..... 43
Consolidated Products Co., Inc..... 75
Consulting Chemists and Engineers..... 65
Cornwell Chemical Corp..... 42
Coupe, Robert A..... 40
Crosby Chemicals, Inc..... 66
Crosby Forest Products Co..... 72
Dewey & Almy Chemical Co..... 34
Diamond Alkali Co., Organic Chemicals Div. 1, 44
Dicalite Division, Great Lakes Carbon Corp. 57
Diehl, Wm., & Co..... 74
Distillation Products Industries, Div. of Eastman Kodak Co..... 59
Dodge & Olcott, Inc..... 64
Doggett, Stanley, Inc..... 69
Dow Chemical Co..... 27
Duff Chemical Co., Inc..... 42
Du Pont de Nemours, E. I., & Co., Inc..... 54
Duval Sulphur & Potash Co..... 28
Eastman Chemical Products, Inc. 40, 43
Emery Industries, Inc..... 73
Equipment Clearing House, Inc..... 76
Ethyl Corporation..... 30
European Chemical Co., Inc..... 56
Fairmount Chemical Co., Inc..... 56
Felton Chemical Co., Inc..... 23
Ferro Chemical Corp..... 45
Fezandie & Sperrle..... 51
Fine Organics, Inc..... 80
First Machinery Corp..... 77
Florasynth Laboratories, Inc..... 63
Freeport Sulphur Co..... 45
Fritzsche Brothers, Inc..... 63
Gas Purifying Materials Co..... 45
Gelb, R., & Sons, Inc..... 77
General Biochemicals, Inc..... 59
Geuder Paeschke & Frey Co..... 70
Glidden Company..... 60
Glycerine Producers Association..... 19
Gray, William S., & Co..... 1
Greeff, R. W., & Co..... 53
Gross, A., & Company..... 71
Gruman, J. B., Co..... 59
Hall, The C. P., Co..... 56
Hardesty, W. C., Co..... 71
Harshaw Chemical Co..... 22
Heat and Power Co., Inc..... 76
Hercules Powder Co.....68, 70
Heyden Chemical Corp..... 67
Hoffmann-La Roche, Inc..... 2
Hooker Electrochemical Co..... 20
Hopkins, J. L., & Co..... 61
Hutchinson, D. W., & Co., Inc..... 63
Hydrocarbon Chemicals, Inc..... 6
Inland Alkaloid Company..... 61
Kay-Fries Chemicals, Inc..... 57
Kolon Trading Co., Inc..... 50
Koppers Company, Inc..... 49
Kraft Bag Corp..... 55
Lawler Company..... 76
Leonhard Theodor, Wax Co., Inc. 74
Lever Brothers Company..... 54
Liquid Carbonic Corp..... 14
Loeb, H., & Son..... 77
Loeb Equipment Supply Co..... 76
Lucidol Corp..... 62
Lueders, George, & Co..... 63
Machinery & Equipment Co.....76, 77
Machinery & Equipment Corp..... 76
Magna Manufacturing Co., Inc..... 42
Magnus, Mabee & Reynard, Inc..... 63
Mallinckrodt Chemical Works..... 70
Mantrose Corporation..... 68
Marine Magnesium Products Corp..... 59
Marshall Railway Equipment Corp..... 77
Maschmeijer, A., Jr..... 64
Matheson Coleman & Bell, Inc..... 55
Mathieson Industrial Chemicals Co..... 41
Mathieu, A. H., & Co..... 40
McKesson & Robbins, Inc..... 53
Mefford Chemical Co..... 54
Metalsalts Corporation..... 52
Michigan Chemical Corp..... 11
Miel, George A., Co., Inc. 71
Millmaster Chemical Corp..... 50
Mutual Chemical Co. of America..... 51
Nassau Chemicals, Inc..... 57
National Alfalfa Dehydrating & Milling Co. 54
National Rosin Oil Products, Inc..... 69
Natural Products Refining Co..... 32
Neuberg, William D., Co..... 50
Neville Company..... 46
Newman Tallow & Soap Machinery Co..... 77
Niagara Alkali Company..... 29
Nitrogen Division Allied Chemical & Dye Corp. 44, 54
Nylos Trading Co., Inc..... 52
Ohio-Apex, Inc..... 68
Pacific Coast Borax Co..... 1
Pacific Vegetable Oil Corp..... 25
Parsons-Plymouth, Inc., M. W..... 68
Penick, S. B., & Co..... 60
Pennotex Oil Corp..... 74
Pennsylvania Industrial Chem. Corp..... 67
Pennsylvania Refining Company..... 47
Pennsylvania Salt Mfg. Co. of Washington.. 13
Penola Oil Co..... 26
Perry Equipment Corp..... 76
Pfizer, Chas., & Co., Inc..... 37
Philipp Brothers Chemicals, Inc..... 39
Philipp Brothers, Inc..... 39
Piper & Hill 78
Pittsburgh Coke & Chemical Co. 50
Polak & Schwarz, Inc..... 64
Potash Co. of America..... 45
Prentiss Drug & Chemical Co., Inc..... 60
Prior Chemical Corp..... 1
Procter & Gamble..... 54
Publicker Industries, Inc..... 1
Purocaine, Inc..... 58
Pyramid Chemical Co..... 56
Quaker State Oil Refining Corp..... 47
Raney Catalyst Co..... 45
Read, Chas. L., & Co., Inc..... 40
Reinhart Chemical Corp..... 50
Republic Steel Corp..... 49
Richmond Mica Corp. 66
Richter, Gedeon Pharmaceutical Products, Inc. 54
Robertet, P., Inc..... 64
Rosenthal Beecow Co., Inc..... 80
Roure-Dupont, Inc..... 64
Seaweed Products, Ltd..... 62
Sergeant, E. M., Pulp & Chemical Co..... 40
Shamrock Chemicals Corp..... 62
Sharples Chemicals Inc..... 80
Shell Chemical Corp..... 21
Shell Oil Co., Inc..... 46
Smith Chemical & Color Co., Inc..... 66
Snell, Foster D., Inc..... 43
Solvay Process Div., Allied Chemical & Dye Corp. 31
Solvents & Chemical Group..... 47
Spencer Chemical Co..... 42
Standard Collapsible Tube Co..... 66
Stauffer Chemical Co..... 41
Stein Equipment Co..... 76
Strohmeyer & Arpe Co..... 74
Sumner Chemical Co., Inc..... 59
Sunkist Growers, Inc..... 24
Synthetic Products Co..... 69
Tar Residuals, Inc.....50, 54
Tennessee Corporation..... 45
Terra Chemicals, Inc..... 45
Thompson-Hayward Chemical Co..... 38
Thurston & Braidich..... 62
Tragacanth Importing Corp..... 62
Truland Chemical & Engineering Co..... 78
Turner, Joseph, & Co..... 42
Union Carbide & Carbon Corp., Carbide & Carbon Chemicals Co. Div..... 56
Union Standard Equipment Co..... 75
United States Potash Co., Inc..... 44
van Ameringen-Haebler, Inc..... 64
Verona Chemical Co..... 64
Warwick Wax Company, Inc..... 33
Will & Baumer Candle Co., Inc..... 71
Wilner Wood Products Co..... 70
Wirz, A. H., Inc..... 69
Witco Chemical Company..... 15
Young, The J. S., Company..... 51
Zinsser & Co., Inc..... 51

World Health Conference

—*Continued from page 7*

reau, Dr. H. van Zile Hyde and Mrs. Franklin D. Roosevelt.

The afternoon of the seventh will be given over to working party discussions on the following subjects:—

"What Should Be the Effect of Variations in National Cultural and Economic Patterns on the Methods Employed by WHO- How Does a Known Scientific Fact Become Adopted and Absorbed Into Daily Professional Practice and Personal Living Habits?"

"How Can Cooperation Between WHO and Other International Agencies, Official and Voluntary, Be Further Improved?"

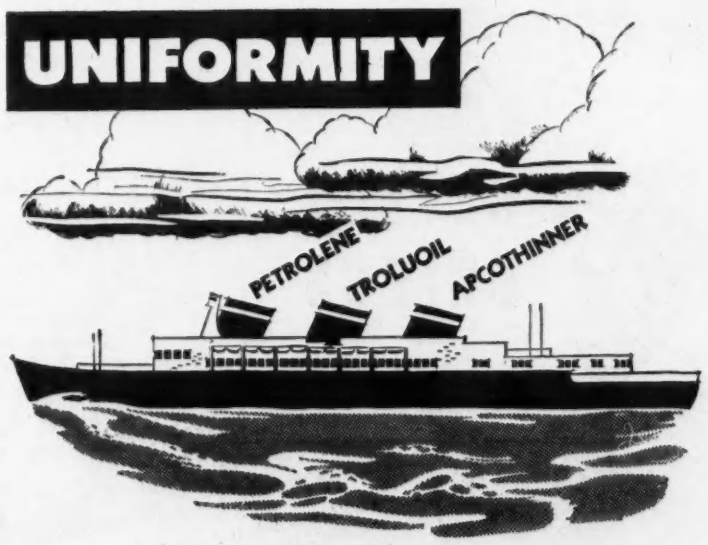
"What Are the Top Priorities in World Health Problems, Now and as Part of a Future Comprehensive Plan for Better World Health?"

"Why Is WHO Important to Americans and How Far Can the United States Go in Supporting International Health Work?"

"How Can WHO Be Made to 'Come Alive' to All Americans?"

"How Can Interested Americans Learn More About and Express Their Interest in WHO?"

The dinner will be held that night, at which a talk on "The US Belief in the UN and Its Agencies" will be presented. In addition, mimeographed working party reports will be distributed for discussion at the general session the next morning. The reports will be formally presented at the second general session on the morning of April 8 by Dr. Leonard A. Scheele, Surgeon General of the United States. A discussion period will follow. Dr. Howard Rusk will report on the National Citizens Committee for the World Health Organization. At the luncheon, a talk on "The US Stake in World Health" will be given. In addition, conference recommendations will be discussed.



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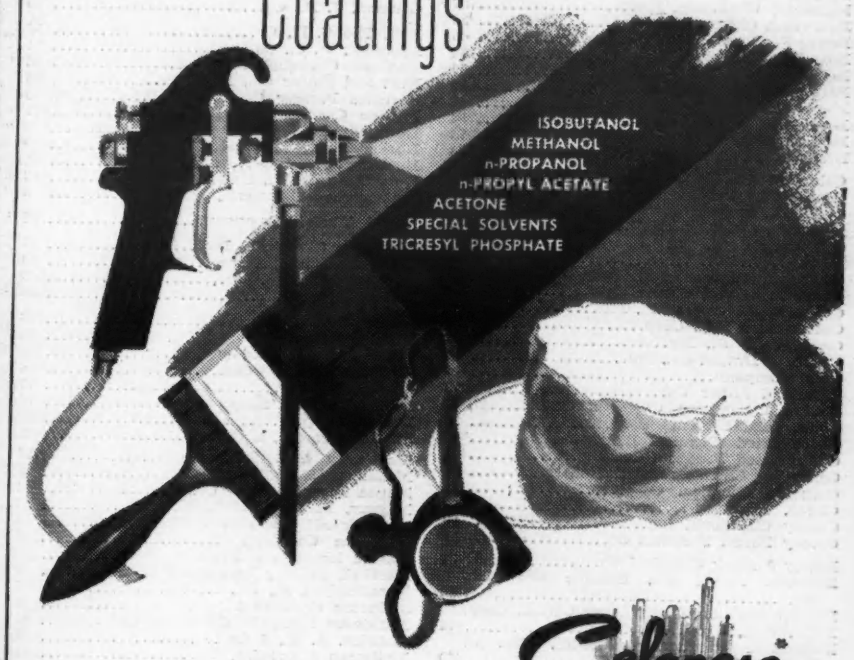

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